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File 347:JAPIO Oct 1976-2003/May(Updated 030902)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200363
         (c) 2003  Thomson Derwent
File  35:Dissertation Abs Online 1861-2003/Sep
         (c) 2003 ProQuest Info&Learning
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File  65:Inside Conferences 1993-2003/Oct W1
         (c) 2003 BLDSC all rts. reserv.
File   2:INSPEC 1969-2003/Sep W4
         (c) 2003 Institution of Electrical Engineers
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
         (c) 2003, EBSCO Pub.
File 474:New York Times Abs 1969-2003/Oct 03
         (c) 2003 The New York Times
File 475:Wall Street Journal Abs 1973-2003/Oct 03
         (c) 2003 The New York Times
File  99:Wilson Appl. Sci & Tech Abs 1983-2003/Aug
         (c) 2003 The HW Wilson Co.
File  95:TEME-Technology & Management 1989-2003/Sep W3
         (c) 2003 FIZ TECHNIK
File  15:ABI/Inform(R) 1971-2003/Oct 04
         (c) 2003 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2003/Oct 03
         (c) 2003 Resp. DB Svcs.
File 610:Business Wire 1999-2003/Oct 06
         (c) 2003 Business Wire.
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 275:Gale Group Computer DB(TM) 1983-2003/Oct 03
         (c) 2003 The Gale Group
File 476:Financial Times Fulltext 1982-2003/Oct 06
         (c) 2003 Financial Times Ltd
File 624:McGraw-Hill Publications 1985-2003/Oct 03
         (c) 2003 McGraw-Hill Co. Inc
File 636:Gale Group Newsletter DB(TM) 1987-2003/Oct 03
         (c) 2003 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Oct 06
         (c) 2003 The Gale Group
File 613:PR Newswire 1999-2003/Oct 06
         (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File  16:Gale Group PROMT(R) 1990-2003/Oct 03
         (c) 2003 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 634:San Jose Mercury  Jun 1985-2003/Oct 04
         (c) 2003 San Jose Mercury News
File 148:Gale Group Trade & Industry DB 1976-2003/Oct 06
         (c)2003 The Gale Group
File  20:Dialog Global Reporter 1997-2003/Oct 06
         (c) 2003 The Dialog Corp.
File 995:NewsRoom 2000
         (c) 2003 The Dialog Corporation

Set     Items   Description
S1          6   AU='CAZALET E G'
S2          1   AU='FU CHENGJIANG'
S3         10   AU='SAMUELSON R':AU='SAMUELSON R N'
S4          3   AU='STREMEL, JOHN' OR AU='STREMEL, JOHN P'
S5         42   AU='TENEV T':AU='TENEV TICHOMIR G' OR AU='TENEV, T.':AU='T-
               ENEV, TIHOMIR'
S6          9   (S1 OR S2 OR S3 OR S4 OR S5) AND POWER
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EKD October 6, 2003

6/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015015655 **Image available**
WPI Acc No: 2003-076172/200307
Related WPI Acc No: 2001-335620; 2001-580917; 2001-580918; 2002-049656; 2002-089942; 2002-434191
XRPX Acc No: N03-059020

**Process for bundling and trading energy and transmission rights searches continuously for ways to disassemble sale bundles into component elements of rights**

Patent Assignee: SAMUELSON R (SAMU-I); AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: **SAMUELSON R** ; **TENEV T**
Number of Countries: 092 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 2002103465 | A2 | 20021227 | WO 2002US15719 | A | 20020515 | 200307 | B |
| WO 200317030 | A2 | 20030227 | WO 2002US23762 | A | 20020726 | 200316 | |
| US 20030055776 | A1 | 20030320 | US 2001291218 | P | 20010515 | 200327 | |
| | | | US 2001932694 | A | 20010816 | | |
| | | | US 2002146511 | A | 20020514 | | |

Priority Applications (No Type Date): US 2002146511 A 20020514; US 2001291218 P 20010515; US 2001932694 A 20010816
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 2002103465 | A2 | E | 266 | G06F-000/00 | |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

| | | | | | |
|---|---|---|---|---|---|
| WO 200317030 | A2 | E | | G06F-000/00 | |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

| | | | | | |
|---|---|---|---|---|---|
| US 20030055776 | A1 | | | G06F-017/60 | Provisional application US 2001291218 |
| | | | | | CIP of application US 2001932694 |

Abstract (Basic): WO 2002103465 A2

NOVELTY - Method consists in accepting participant offers to sell complete bundles of energy and transmission rights, allowing participants to enter bids, disassembling and re-assembling the sale bundles by a continuous search contracting orders for bid and sale bundles if aggregate bids exceed aggregate offers. A price quote is generated for a point-to-point transmission right for a participant on demand, if component elements are not needed by any bid bundles they are returned to the owner, and a price quote for energy at a particular location for a participant is generated on demand.

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for an apparatus for bundling and trading energy and transmission rights.

USE - Method is for trading, operational scheduling and settling transactions of grid electrical **power** .

ADVANTAGE - Method allows participants to obtain accurate ex ante quotes for energy and transmission rights.

DESCRIPTION OF DRAWING(S) - The figure shows certified clients controlling means for using a transaction system.

pp; 266 DwgNo 2a/51

Title Terms: PROCESS; BUNDLE; TRADE; ENERGY; TRANSMISSION; SEARCH;

CONTINUOUS; WAY; DISASSEMBLE; SALE; BUNDLE; COMPONENT; ELEMENT
Derwent Class: T01
International Patent Class (Main): G06F-000/00; G06F-017/60
File Segment: EPI

**6/5/2 (Item 2 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


014659355 **Image available**
WPI Acc No: 2002-480059/200251
XRPX Acc No: N02-379105

**Method of operating client computer including market engine, scheduling engine and settlement engine by receiving credit message based upon at least one member of collection comprising commitment and invoice**

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: **CAZALET E G** ; **SAMUELSON R** ; STREMEL J; **TENEV T**
Number of Countries: 094 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200244853 | A2 | 20020606 | WO 2001US44842 | A | 20011115 | 200251 | B |
| AU 200237688 | A | 20020611 | AU 200237688 | A | 20011115 | 200264 | |

Priority Applications (No Type Date): US 2000724650 A 20001128
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200244853 | A2 | E | 187 | G06F-000/00 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

| | | | | |
|---|---|---|---|---|
| AU 200237688 | A | | G06F-000/00 | Based on patent WO 200244853 |

Abstract (Basic): WO 200244853 A2

NOVELTY - A production schedule involves at least one of the fungible, ephemeral commodities in at least one of the market intervals to create the authenticated received message. An invoice regarding the commodities may create the authenticated received message. A credit message is based upon at least one member of the collection comprising the commitment and the invoice to create the authenticated received message.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for:

(a) a client system supporting at least one certified client transaction regarding market intervals

USE - For operating a client computer for trading, operational scheduling, and settling transactions involving ephemeral, fungible commodities with regards to trading electrical **power** as applied to grids of one or more AC **power** networks.

ADVANTAGE - Optimizes the scheduling, congestion management, ancillary services, metering, billing and settlements of accounts for electrical grids. Complies with the physics of AC **power** networks. Trades generation and transmission rights in a timely, reliable and efficient manner which automatically guarantees correct operation of the **power** grid. Provides not only trading in futures, but also ancillary services and various attributes of the traded commodities.

DESCRIPTION OF DRAWING(S) - The drawing shows a detailed flowchart performing receiving an authentication message according to the present invention.

pp; 187 DwgNo 29/45

Title Terms: METHOD; OPERATE; CLIENT; COMPUTER; MARKET; ENGINE; SCHEDULE; ENGINE; SETTLE; ENGINE; RECEIVE; CREDIT; MESSAGE; BASED; ONE; MEMBER; COLLECT; COMPRISE; INVOICING
Derwent Class: T01

International Patent Class (Main): G06F-000/00
File Segment: EPI

6/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014269244 **Image available**
WPI Acc No: 2002-089942/200212
Related WPI Acc No: 2001-335620; 2001-580917; 2001-580918; 2002-049656; 2002-434191; 2003-076172
XRPX Acc No: N02-066247
**Computing system for operational scheduling and trading of electrical power as applied to grids of AC power networks.**
Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: **CAZALET E G** ; **SAMUELSON R** ; STREMEL J; **TENEV T**
Number of Countries: 091 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200190996 | A2 | 20011129 | WO 2001US15858 | A | 20010516 | 200212 | B |
| AU 200163198 | A | 20011203 | AU 200163198 | A | 20010516 | 200221 | |

Priority Applications (No Type Date): US 2000613685 A 20000711; US 2000206852 P 20000523
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200190996 | A2 | E | 201 | G06F-017/60 | |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

| | | | | | |
|---|---|---|---|---|---|
| AU 200163198 | A | | | G06F-017/60 | Based on patent WO 200190996 |

Abstract (Basic): WO 200190996 A2
NOVELTY - The computing system supports transactions involving ephemeral commodities such as electrical **power** and its transmission, and trading such commodities to create commitments, scheduling, and settling the commitments. The system includes a market engine that supports a virtual trading floor and external market trading by certified clients of the system.
DETAILED DESCRIPTION - An independent claim is included for a method of interacting with clients.
USE - To integrate trading activities and scheduling for certified clients.
ADVANTAGE - Upgrades of one component do not affect the integrity of other components.
DESCRIPTION OF DRAWING(S) - Flow chart showing interaction between clients
pp; 201 DwgNo 1A/29
Title Terms: COMPUTATION; SYSTEM; OPERATE; SCHEDULE; TRADE; ELECTRIC; **POWER** ; APPLY; GRID; AC; **POWER** ; NETWORK
Derwent Class: T01
International Patent Class (Main): G06F-017/60
File Segment: EPI

6/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014096704 **Image available**
WPI Acc No: 2001-580918/200165
Related WPI Acc No: 2001-335620; 2001-580917; 2002-049656; 2002-089942;

2002-434191; 2003-076172
XRPX Acc No: N01-432692

**Method of planning device for trading and traded electrical power as applied to grids of one or more AC power networks by examining knowledge interval collection based upon ephemeral, fungible commodity needs over planning interval**

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: **CAZALET E G ; TENEV T**
Number of Countries: 091 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200141280 | A1 | 20010607 | WO 2000US30712 | A | 20001107 | 200165 | B |
| AU 200113633 | A | 20010612 | AU 200113633 | A | 20001107 | 200165 | |
| NO 200202595 | A | 20020731 | WO 2000US30712 | A | 20001107 | 200263 | |
| | | | NO 20022595 | A | 20020531 | | |
| EP 1234369 | A1 | 20020828 | EP 2000975612 | A | 20001107 | 200264 | |
| | | | WO 2000US30712 | A | 20001107 | | |
| JP 2003521025 | W | 20030708 | WO 2000US30712 | A | 20001107 | 200347 | |
| | | | JP 2001542441 | A | 20001107 | | |

Priority Applications (No Type Date): US 2000613685 A 20000711; US 99168478 P 19991201
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200141280 | A1 | E | 179 | H02J-003/00 | |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

| | | | | | |
|---|---|---|---|---|---|
| AU 200113633 | A | | | H02J-003/00 | Based on patent WO 200141280 |
| NO 200202595 | A | | | H02J-000/00 | |
| EP 1234369 | A1 | E | | H02J-003/00 | Based on patent WO 200141280 |

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

| | | | | | |
|---|---|---|---|---|---|
| JP 2003521025 | W | | 192 | G06F-019/00 | Based on patent WO 200141280 |

Abstract (Basic): WO 200141280 A1

NOVELTY - The method involves determining the ephemeral, fungible commodity needs over a planning time interval. The knowledge interval collection is examined based upon the ephemeral, fungible commodity needs over the planning time interval to create a device operating schedule. A first knowledge interval of the ephemeral, fungible commodity may be created at a first time interval containing a first cost in the knowledge interval collection.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:
(a) a program operating system supporting claimed method
(b) a computing system supporting claimed method
(c) a control system controlling a device consuming an ephemeral fungible commodity based upon a knowledge interval collection

USE - For planning and managing the operation of devices using ephemeral, fungible commodities with regards to trading and traded electrical **power** as applied to grids of one or more AC **power** networks.

ADVANTAGE - Allows to meter usage and cost of such devices under operation based upon the time variations in the economics. Optimizes the scheduling, congestion management, ancillary services, metering, billing and settlements of accounts for electrical grids, complies with the physics of AC **power** networks. Controls the devices based upon trading generation and transmission rights in a timely, reliable and efficient manner, which automatically guarantees correct operation of the **power** grid.

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart of a method of planing device according to the present invention.

pp; 179 DwgNo 4a/40

Title Terms: METHOD; PLAN; DEVICE; TRADE; ELECTRIC; **POWER** ; APPLY; GRID; ONE; MORE; AC; **POWER** ; NETWORK; INTERVAL; COLLECT; BASED; FUNGIBLE; COMMODITY; NEED; PLAN; INTERVAL
Derwent Class: T01; X12
International Patent Class (Main): G06F-019/00; H02J-000/00; H02J-003/00
International Patent Class (Additional): G06F-017/60; H02J-003/14; H02J-003/46
File Segment: EPI

**6/5/5 (Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


014096703 **Image available**
WPI Acc No: 2001-580917/200165
Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942; 2002-434191; 2003-076172
XRPX Acc No: N01-432691

**System for managing AC** power **networks based on flow-gate market transactions by contracting** power **transfer on each flow gate of the gate collection**

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: **CAZALET E G** ; FU C; **SAMUELSON R** ; STREMEL J; **TENEV T**
Number of Countries: 091 Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200141279 | A1 | 20010607 | WO 2000US22487 | A | 20000816 | 200165 | B |
| AU 200067781 | A | 20010612 | AU 200067781 | A | 20000816 | 200165 | |
| NO 200202555 | A | 20020717 | WO 2000US22487 | A | 20000816 | 200260 | |
| | | | NO 20022555 | A | 20020529 | | |
| EP 1234368 | A1 | 20020828 | EP 2000955602 | A | 20000816 | 200264 | |
| | | | WO 2000US22487 | A | 20000816 | | |

Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213 P 19991130; US 99163213 P 19991130
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200141279 | A1 | E | 99 | H02J-003/00 | |
| Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA | | | | | |
| Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW | | | | | |
| AU 200067781 | A | | | H02J-003/00 | Based on patent WO 200141279 |
| NO 200202555 | A | | | H02J-000/00 | |
| EP 1234368 | A1 | E | | H02J-003/00 | Based on patent WO 200141279 |
| Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI | | | | | |

Abstract (Basic): WO 200141279 A1

NOVELTY - A flow of execution (1060) for a starting operation (1022) goes to an operation (1062), performing contracting of the associated AC **power** transfer on each of the flow gates of the flow gate collection, to take place over at least a first time interval, while the execution (1064) for operation (1062) flows to an operation (1060), terminating the operation of the flow chart. The operations are supported by a program code segment recording in a computer memory.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for a method for contracting AC **power** transfer on an AC **power** network and for a computer system supporting program.

USE - Controlling AC electrical **power** transfer in a frequency controlled AC **power** network.

ADVANTAGE - Trading transfer rights in a timely, reliable and efficient manner.

DESCRIPTION OF DRAWING(S) - The drawing shows operation of the flow transfer over a first time interval.

pp; 99 DwgNo 6/36

Title Terms: SYSTEM; MANAGE; AC; **POWER** ; NETWORK; BASED; FLOW; GATE; MARKET; TRANSACTION; CONTRACT; **POWER** ; TRANSFER; FLOW; GATE; GATE; COLLECT

Derwent Class: T01; X12

International Patent Class (Main): H02J-000/00; H02J-003/00

International Patent Class (Additional): G06F-017/60

File Segment: EPI

**6/5/6 (Item 6 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



013851407 **Image available**

WPI Acc No: 2001-335620/200135

Related WPI Acc No: 2001-580917; 2001-580918; 2002-049656; 2002-089942; 2002-434191; 2003-076172

XRPX Acc No: N01-242299

**Trading method for ephemeral, fungible commodities of electrical** power **grid comprising AC** power **network, to provide virtual trading floor for trading fungible, ephemeral commodities including electrical energy**

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)

Inventor: **CAZALET E G** ; **TENEV T**

Number of Countries: 091 Number of Patents: 005

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| WO 200128063 | A1 | 20010419 | WO 2000US22489 | A | 20000816 | 200135 B |
| AU 200067782 | A | 20010423 | AU 200067782 | A | 20000816 | 200147 |
| NO 200201628 | A | 20020605 | WO 2000US22489 | A | 20000816 | 200250 |
| | | | NO 20021628 | A | 20020405 | |
| EP 1218999 | A1 | 20020703 | EP 2000955603 | A | 20000816 | 200251 |
| | | | WO 2000US22489 | A | 20000816 | |
| JP 2003525005 | W | 20030819 | WO 2000US22489 | A | 20000816 | 200356 |
| | | | JP 2001530175 | A | 20000816 | |

Priority Applications (No Type Date): US 2000564415 A 20000502; US 99158603 P 19991008

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200128063 | A1 | E | 100 | H02J-003/00 | |
| AU 200067782 | A | | | H02J-003/00 | Based on patent WO 200128063 |
| NO 200201628 | A | | | H02J-000/00 | |
| EP 1218999 | A1 | E | | H02J-003/00 | Based on patent WO 200128063 |
| JP 2003525005 | W | | 113 | H02J-003/00 | Based on patent WO 200128063 |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200128063 A1

NOVELTY - The method involves maintaining market a market interval collection of market intervals, and maintaining a validated order collection of validated orders, each with an associated market interval.

DETAILED DESCRIPTION - The method involves trading ephemeral, fungible commodities of an electrical **power** grid containing at least one AC **power** network each containing a node collection of at least two nodes. The method involves maintaining a market interval collection of market intervals, and maintaining a validated order collection of

validated orders, each within an associated market interval. Each market interval contains a product type, location and at least one time interval. INDEPENDENT CLAIMS are included for; a program operating system composed of program code segments for supporting a method for trading for ephemeral, fungible commodities of electrical **power** grid comprising AC **power** network.

USE - Virtual trading floor for trading fungible, ephemeral commodities including electrical energy.

ADVANTAGE - Allows for complex orders to be processed, such that energy may be ordered along with the transmission rights for that **power** .

DESCRIPTION OF DRAWING(S) - The drawing shows a virtual trading floor containing validated orders and market intervals with associated market states in accordance with the invention.

Virtual trading floor (100)
Market states (1102, 1122, 1142, 1162)
Market intervals (1100, 1200, 1140, 1160)
Validated order (1200, 1210, 1220, 1230, 1240, 1250)
pp; 100 DwgNo 3/25

Title Terms: TRADE; METHOD; FUNGIBLE; COMMODITY; ELECTRIC; **POWER** ; GRID; COMPRISE; AC; **POWER** ; NETWORK; VIRTUAL; TRADE; FLOOR; TRADE; FUNGIBLE; COMMODITY; ELECTRIC; ENERGY
Derwent Class: T01; X12
International Patent Class (Main): H02J-000/00; H02J-003/00
International Patent Class (Additional): G06F-017/60
File Segment: EPI

**6/5/7 (Item 1 from file: 2)**
DIALOG(R)File 2:INSPEC


5761561 INSPEC Abstract Number: C9801-6130B-018
**Title: Managing multiple focal levels in Table Lens**
Author(s): **Tenev, T.** ; Rao, R.
Author Affiliation: Xerox Palo Alto Res. Center, CA, USA
Conference Title: Proceedings. IEEE Symposium on Information Visualization (Cat. No.97TB100195) p.59-63, 122
Editor(s): Dill, J.; Gershon, N.
Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA
Publication Date: 1997 Country of Publication: USA xvi+127 pp.
ISBN: 0 8186 8189 6 Material Identity Number: XX97-02762
U.S. Copyright Clearance Center Code: 0 8186 8189 6/97/$10.00
Conference Title: Proceedings of VIZ '97: Visualization Conference, Information Visualization Symposium and Parallel Rendering Symposium
Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Comput. Graphics
Conference Date: 20-21 Oct. 1997 Conference Location: Phoenix, AZ, USA
Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: The Table Lens, focus+context visualization for large data tables, allows users to see 100 times as many data values as a spreadsheet in the same screen space in a manner that enables an extremely immediate form of exploratory data analysis. In the original Table Lens design, data are shown in the context area using graphical representations in a single pixel row. Scaling up the Table Lens technique beyond approximately 500 cases (rows) by 40 variables (columns) requires not showing every value individually and thus raises challenges for preserving the exploratory and navigational ease and **power** of the original design. We describe two design enhancements for introducing regions of less than a pixel row for each data value and discuss the issues raised by each. (6 Refs)
Subfile: C
Descriptors: data analysis; data visualisation; user interfaces; very large databases
Identifiers: multiple focal-level-management; Table Lens; focus visualization; context visualization; large data tables; data values; spreadsheet; screen space; exploratory data analysis; graphical

representations; single pixel row; design enhancements; user interface
Class Codes: C6130B (Graphics techniques); C6180 (User interfaces); C6160Z (Other DBMS)


**6/5/8 (Item 1 from file: 99)**
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs


0533134 H.W. WILSON RECORD NUMBER: BAST84025947
**Modeling generating unit size and economics of scale in capacity expansion with an efficient, real number representation of capacity additions**
Caramanis, Michael; **Stremel, John P** ; Charny, Leonid
IEEE Transactions on Power Apparatus and Systems v. 103 (Mar. '84) p. 506-13
DOCUMENT TYPE: Feature Article ISSN: 0018-9510 LANGUAGE: English
RECORD STATUS: New record

DESCRIPTORS: Electric **power** plants--Costs; Electric utilities--Development work; Programming (Mathematics;

**6/5/9 (Item 1 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)


00430264 89-02051
**How an Electric Utility Cost Model Can Be Validated**
**Stremel, John** ; Stillinger, William
Public Utilities Fortnightly v122n12 PP: 17-20 Dec 8, 1988 CODEN: PUFNAV
ISSN: 0033-3808 JRNL CODE: PUF
DOC TYPE: Journal article LANGUAGE: English LENGTH: 4 Pages
SPECIAL FEATURE: Charts

ABSTRACT: A simple but elegant series of objective tests is presented to set necessary conditions for the acceptance of forecast results from an electric utility production cost model. Referred to as the "acid test" approach, the basic premise is that a model must be able to simulate a simple situation accurately before confidence can be established that a more complex utility system can be represented. The test's **power** comes from the ability to know and compare the "correct" or true answer against the results of any other model. A fictitious system of 6 thermal generating units and one pumped hydro unit is used, and the model is put through a series of tests that examine key constraints. The acid test approach was developed as part of the acceptance procedure for a production cost model sponsored and codeveloped by Northeast Utilities Service Co.
COMPANY NAMES:
Northeast Utilities (DUNS:00-695-3418 TICKER:NU)

DESCRIPTORS: Electric utilities; Production costs; Models; Validation; Methods; Accuracy; Computer based modeling; Marginal costs
CLASSIFICATION CODES: 8340 (CN=Electric, water & gas utilities); 3100 (CN=Capital & debt management)

File 348:EUROPEAN PATENTS 1978-2003/Sep W04
(c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20031002,UT=20030925
(c) 2003 WIPO/Univentio

| Set | Items | Description |
|---|---|---|
| S1 | 726015 | POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES OR ENERGY |
| S2 | 16851 | FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NECK? ? OR BLACKOUT? OR BLACK??()OUT? ? OR SHORTAGE? ? OR (INSUFFICIEN? OR INADEQUATE OR SCARCE OR DEFICIENT OR ("NOT"()ENOUGH) OR SHORT)()(SUPPLY OR CAPACITY) |
| S3 | 1558930 | NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARRANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR HANDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS? |
| S4 | 1016327 | (REAL OR SAME)()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP(1W)DATE OR UP(2W)MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCURRENT? OR BEHIND(2W)SCENE? OR ON()FLY |
| S5 | 195 | (S1(5N)S2) AND (S3(5N)S4) |
| S6 | 7 | (S1(5N)S2)(20N)(S3(5N)S4) |
| S7 | 9 | S5 AND IC=(H02J-000/00 OR H02J-003/00 OR G06F-017/60) |
| S8 | 54577 | S3(2W)(SUPPLY OR CAPACITY OR QUANTIT???) |
| S9 | 1 | (S4(5N)S8)(S)(S1(5N)S2) |
| S10 | 28 | (S4(5N)S8)(S)(S1 AND S2) |
| S11 | 27 | S10 NOT (S6 OR S7 OR S9) |

**6/TI,PY,AZ/1 (Item 1 from file: 348)**
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01117960
**Auxiliary drive system for power-driven apparatus**
**Hilfsantriebssystem fur automatisches Gerat**
**Systeme d'entrainement auxiliaire pour un appareil automatique**
PATENT (CC, No, Kind, Date): EP 978755 A1 000209 (Basic)

**6/TI,PY,AZ/2 (Item 2 from file: 348)**
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00646718
**Fuel composition**
**Kraftstoffezusammensetzung**
**Composition de combustible**
PATENT (CC, No, Kind, Date): EP 624639 A1 941117 (Basic)
EP 624639 B1 980812

**6/TI,PY,AZ/3 (Item 3 from file: 348)**
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00646707
**Compositions useful as additives for lubricants and liquid fuels.**
**Als Zusatze fur Schmiermittel und flussige Kraftstoffe nutzliche Zusammensetzungen.**
**Compositions utiles comme additifs pour lubrifiants et liquides combustibles.**
PATENT (CC, No, Kind, Date): EP 624638 A1 941117 (Basic)

**6/TI,PY,AZ/4 (Item 4 from file: 348)**
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00556825
**FUEL COMPOSITION.**
**BRENNSTOFFZUSAMMENSETZUNG.**
**COMPOSITION DE CARBURANT.**
PATENT (CC, No, Kind, Date): EP 525157 A1 930203 (Basic)
EP 525157 B1 950301
WO 9214805 920903

**6/TI,PY,AZ/5 (Item 5 from file: 348)**
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00309567
**A digital telephone switching system having a message switch with address translation.**
**Digitales Fernsprechvermittlungssystem mit einem Nachrichtenverteiler mit Adressenumsetzung.**
**Systeme de commutation telephonique numerique avec un distributeur de messages a transmission d'adresses.**
PATENT (CC, No, Kind, Date): EP 282197 A2 880914 (Basic)
EP 282197 A3 900530
EP 282197 B1 930414

**6/TI,PY,AZ/6 (Item 6 from file: 348)**
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00300347
**Asynchronous multiphase switching gear.**
**Asynchrones mehrphasiges Schaltgerat.**

**Appareil de commutation polyphase asynchrone.**
PATENT (CC, No, Kind, Date): EP 313926 A2 890503 (Basic)
EP 313926 A3 900530
EP 313926 B1 930804

**6/TI,PY,AZ/7 (Item 1 from file: 349)**


00217580
**FUEL COMPOSITION**
**COMPOSITION DE CARBURANT**
Publication Year: 1992

EKD October 6, 2003

6/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS


00300347
**Asynchronous multiphase switching gear.**
**Asynchrones mehrphasiges Schaltgerat.**
**Appareil de commutation polyphase asynchrone.**
PATENT ASSIGNEE:
International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
Ross, John Michael, 8912 Karver Lane, Annandale Virginia 22003, (US)
Woodworth, George Kelsey, Post Office Box 1220, Manassas Virginia 22110, (US)
LEGAL REPRESENTATIVE:
Monig, Anton, Dipl.-Ing. (8591), IBM Deutschland Informationssysteme GmbH, Patentwesen und Urheberrecht, D-70548 Stuttgart, (DE)
PATENT (CC, No, Kind, Date): EP 313926 A2 890503 (Basic)
EP 313926 A3 900530
EP 313926 B1 930804
APPLICATION (CC, No, Date): EP 88116981 881013;
PRIORITY (CC, No, Date): US 113926 871027
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: H02J-003/38; H02J-009/06;
ABSTRACT WORD COUNT: 139

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS B | (English) | EPBBF1 | 1706 |
| CLAIMS B | (German) | EPBBF1 | 835 |
| CLAIMS B | (French) | EPBBF1 | 1023 |
| SPEC B | (English) | EPBBF1 | 7612 |
| Total word count - document A | | | 0 |
| Total word count - document B | | | 11176 |
| Total word count - documents A + B | | | 11176 |

...SPECIFICATION cannot be tolerated.
The AMSG approach could reduce distribution outages caused by equipment failures for **power utilities** . **Blackouts** that have been caused by the loss of power could be **handled** in a **very** different manner that would allow alternative paths for routing power to an affected area. With ...

7/TI,PY,AZ/1 (Item 1 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01470120
**POWER SUPPLY/DEMAND CONTROL SYSTEM**
**LEISTUNGSVERSORGUNGS-BEDARFSREGELUNGSSYSTEM**
**SYSTEME DE REGULATION DE DEMANDE DE COURANT ET D'ALIMENTATION EN COURANT**
PATENT (CC, No, Kind, Date): EP 1255340 A1 021106 (Basic)
WO 2002029952 020411

7/TI,PY,AZ/2 (Item 2 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01458548
**Data warehouse model and methodology**
**Modell und Methodologie fur ein Datenlagerhaus**
**Modele de depot de donnees et methodologie**
PATENT (CC, No, Kind, Date): EP 1248216 A1 021009 (Basic)

7/TI,PY,AZ/3 (Item 3 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01371168
**Power amount control method and apparatus**
**Leistungsverbrauchsteuerungsverfahren und -vorrrichtung**
**Procede et appareil de regulation de la quantite de puissance**
PATENT (CC, No, Kind, Date): EP 1168563 A2 020102 (Basic)

7/TI,PY,AZ/4 (Item 4 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01071115
**AUTOMATED SURVEY KIOSK and system**
**Automatisierte Marktforschungskiosk und -system**
**Systeme et borne informatique de sondage**
PATENT (CC, No, Kind, Date): EP 1046119 A2 001025 (Basic)
EP 1046119 B1 030521
WO 99035600 990715

7/TI,PY,AZ/5 (Item 1 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00911739
**METHOD AND APPARATUS FOR TRADING AND MANAGING FUNGIBLE, EPHEMERAL COMMODITIES INCLUDING ELECTRICAL POWER**
**PROCEDE ET APPAREIL EXPLOITANT UN ORDINATEUR CLIENT EN INTERACTION AVEC UN SYSTEME MOTEUR POUR L'ECHANGE ET LA GESTION DE BIENS FONGIBLES ET EPHEMERES, DONT L'ENERGIE ELECTRIQUE**
Publication Year: 2002

7/TI,PY,AZ/6 (Item 2 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00858344
**METHOD AND SYSTEMS SUPPORTING TRADING OF FUNGIBLE EPHEMERAL COMMODITIES AND FUNGIBLE NON-EPHEMERAL COMMODITIES INCORPORATING TRANSMISSION CONTRACTING**
**PROCEDE ET SYSTEMES D'ASSISTANCE A LA NEGOCIATION DE BIENS FONGIBLES EPHEMERES ET NON EPHEMERES AVEC CONCLUSION DE CONTRATS PAR TELECOMMUNICATIONS**
Publication Year: 2001

7/TI,PY,AZ/7 (Item 3 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00858335
**SYSTEM FOR TRADING, SCHEDULING AND SETTLING TRANSACTIONS INVOLVING FUNGIBLE, EPHEMERAL COMMODITIES INCLUDING POWER AND METHOD THEREFOR**
**PROCEDE ET APPAREIL DESTINE A UN SYSTEME DE MOTEUR SUPPORTANT DES TRANSACTIONS, DES ORDONNANCEMENTS ET DES REGLEMENTS CONCERNANT DES MARCHANDISES FONGIBLES ET EPHEMERES, DONT L'ENERGIE ELECTRIQUE**
Publication Year: 2001

7/TI,PY,AZ/8 (Item 4 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00807674
**METHOD AND APPARATUS OF MANAGING EPHEMERAL, FUNGIBLE COMMODITIES BASED UPON REAL - TIME FORWARD PRICES**
**PROCEDE ET APPAREIL DE GESTION DE BIENS FONGIBLES, EPHEMERES FONDES SUR LES PRIX A TERME EN TEMPS REEL**
Publication Year: 2001

7/TI,PY,AZ/9 (Item 5 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00504248
**AUTOMATED SURVEY KIOSK**
**POSTE AUTOMATISE DE SONDAGE**
Publication Year: 1999

9/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS


00343275
**Circuit for controlling the power supply of an electrical load, having a device for detecting a short-circuit of the load.**
**Steuerschaltung fur die Energieversorgung einer elektrischen Last mit einer Erfassungsanordnung eines Kurzschlusses der Last.**
**Circuit de commande de l'alimentation d'une charge electrique, a dispositif de detection d'un court-circuit de la charge.**
PATENT ASSIGNEE:
SIEMENS AKTIENGESELLSCHAFT, (200520), Wittelsbacherplatz 2, W-8000 Munchen 2, (DE), (applicant designated states: DE;ES;GB;IT;NL;SE)
INVENTOR:
Baylac, Bruno Yves Henri, 197 rue des Fontaines, F-31300 Toulouse, (FR)
Castel, Michel, 4 place des Mesanges, F-31140 Aucamville, (FR)
PATENT (CC, No, Kind, Date): EP 343536 A1 891129 (Basic)
EP 343536 B1 930317
APPLICATION (CC, No, Date): EP 89109088 890519;
PRIORITY (CC, No, Date): FR 887005 880526
DESIGNATED STATES: DE; ES; GB; IT; NL; SE
INTERNATIONAL PATENT CLASS: H02H-003/087; H02H-001/04;
ABSTRACT WORD COUNT: 99
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS B | (English) | EPBBF1 | 575 |
| CLAIMS B | (German) | EPBBF1 | 519 |
| CLAIMS B | (French) | EPBBF1 | 580 |
| SPEC B | (English) | EPBBF1 | 3547 |
| Total word count - document A | | | 0 |
| Total word count - document B | | | 5221 |
| Total word count - documents A + B | | | 5221 |

...SPECIFICATION example with reference to the accompanying drawing in which:
- Figure 1 is a diagrammatic representation **of** a circuit for **controlling** the power **supply** of an electrical load, provided with a device for detecting a short-circuit of the...

...the prior art,
- Figure 2 is a diagrammatic representation of a circuit for controlling the **power supply** of an **electrical** load, provided with a device for detecting a short-circuit of the load according to...

11/TI,PY,AZ/1 (Item 1 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01503672
**Raw fuel vaporizing apparatus, method of vaporizing raw fuel, and fuel cell system equipped with raw fuel vaporizing apparatus**
**Apparat zur Verdampfung von Rohbrennstoff, Verfahren zur Verdampfung von Rohbrennstoff und Brennstoffzellensystem ausgerustet mit einem solchen Apparat zur Verdampfung von Rohbrennstoff**
**Dispositif pour vaporiser du combustible brut, methode pour vaporiser du combustible brut et systeme de pile a combustible pourvu d'un tel dispositif pour vaporiser du combustible brut**
PATENT (CC, No, Kind, Date): EP 1258935 A2 021120 (Basic)

11/TI,PY,AZ/2 (Item 2 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01321703
**Method for controlling and synchronizing power supply in a system og electronic devices**
**Verfahren zur Steuerung und Synkronisierung der Stromversorgung in einem System elektronischen Geraten**
**Procede de commande et synchronisation du circuit d'alimentation pour appareils electroniques**
PATENT (CC, No, Kind, Date): EP 1128561 A2 010829 (Basic)

11/TI,PY,AZ/3 (Item 3 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01311109
**Time division duplex cellular communications system with dynamic slot allocation and reduced interference**
**Duplex-Zeitverschachtelungs-Kommunikationssystem mit dynamischer Zeitschlitzzuweisung und verminderter Storung**
**Systeme de communication mobile avec multiplexage temporel duplex a allocation dynamique de canaux temporels et a interference reduite**
PATENT (CC, No, Kind, Date): EP 1122895 A1 010808 (Basic)

11/TI,PY,AZ/4 (Item 4 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01198210
**Method for the simultaneous modernization of a plant for ammonia production and a plant for urea production**
**Verfahren zur gleichzeitigen Modernisierung einer Ammoniakherstellungsanlage und einer Harnstoffherstellungsanlage**
**Procede de modernisation simultanee d'une installation de production d'ammoniac et d'une installation de production d'uree**
PATENT (CC, No, Kind, Date): EP 1041038 A1 001004 (Basic)
EP 1041038 B1 030604

11/TI,PY,AZ/5 (Item 5 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00879276
**Suspend induced by AC power disturbance**
**Durch eine Wechselstorung verursachter Wartezustand**
**Mise en attente provoquee par une perturbation de l'alimentation en courant alternatif**
PATENT (CC, No, Kind, Date): EP 805386 A1 971105 (Basic)

11/TI,PY,AZ/6 (Item 6 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00806019
**Method and apparatus for suspend/resume operation in a computer**
**Verfahren und Vorrichtung fur Halt-/Fortsetzungsfunktion in einem Rechner**
**Procede et dispositif pour fonction d'arret/reprise dans un ordinateur**
PATENT (CC, No, Kind, Date): EP 749063 A2 961218 (Basic)
EP 749063 A3 990113

11/TI,PY,AZ/7 (Item 7 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00765196
**CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM**
**STEUERUNG DER UBERGANGE DER LEISTUNGSVERWALTUNGSZUSTANDE IN EINEM RECHNERSYSTEM**
**COMMANDE DE TRANSITIONS ENTRE DES ETATS DE GESTION DE PUISSANCE DANS UN SYSTEME INFORMATIQUE**
PATENT (CC, No, Kind, Date): EP 780001 A1 970625 (Basic)
EP 780001 B1 991229
WO 9607964 960314

11/TI,PY,AZ/8 (Item 8 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00765195
**PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT**
**DURCHFUHRUNG VON SYSTEMAUFGABEN BEI STROMABSCHALTUNG DURCH VERWENDUNG VON SYSTEMVERWALTUNGSUNTERBRECHUNG**
**REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE L'INTERRUPTION DE GESTION DE SYSTEME**
PATENT (CC, No, Kind, Date): EP 780000 A1 970625 (Basic)
EP 780000 B1 991229
WO 9607963 960314

11/TI,PY,AZ/9 (Item 9 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00742571
**A power management system for providing suspend/resume capability in a computer system**
**Ein Leistungssteuerprozessorsystem, um Halt/Wiederaufnahmefunktion in einem Rechnersystem zur Verfugung zu stellen**
**Systeme de gestion d'alimentation fournissant une possibilite d'arret/reprise**
PATENT (CC, No, Kind, Date): EP 701192 A1 960313 (Basic)
EP 701192 B1 001122

11/TI,PY,AZ/10 (Item 10 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00742570
**A computer system with a ring detection facility to initiate a system wakeup procedure**
**Rechnersystem mit Klingelfeststelleinrichtung, um Systemaufwachverfahren einzuleiten**
**Systeme d'ordinateur avec moyen de detection de sonnerie pour demarrer une procedure de reveil du systeme**
PATENT (CC, No, Kind, Date): EP 701195 A1 960313 (Basic)
EP 701195 B1 011031

11/TI,PY,AZ/11 (Item 11 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00742569
**Power management processor for computer systems having suspend/resume capability**
**Leistungssteuerprozessor fur Rechnersystem mit Halt/Wiederaufnahmefunktion-Fahigkeit**
**Processeur de gestion d'alimentation pour systemes d'ordinateur ayant des possibilites d'arret/reprise**
PATENT (CC, No, Kind, Date): EP 701194 A1 960313 (Basic)
EP 701194 B1 011024

11/TI,PY,AZ/12 (Item 12 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00469739
**High efficiency centrifugal decorticator of oil grains.**
**Hocheffiziente Zentrifugalschalmaschine fur Olsaaten.**
**Decortiqueuse centrifuge a haut rendement.**
PATENT (CC, No, Kind, Date): EP 476594 A1 920325 (Basic)

11/TI,PY,AZ/13 (Item 13 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00319745
**Intermediate potential generation circuit for generating a potential intermediate between a power source potential and ground potential.**
**Schaltung zur Erzeugung einer Zwischenspannung zwischen einer Versorgungsspannung und einer Erdspannung.**
**Circuit generateur d'un potentiel intermediaire entre un potentiel d'alimentation et un potentiel de masse.**
PATENT (CC, No, Kind, Date): EP 321226 A1 890621 (Basic)
EP 321226 B1 930616

11/TI,PY,AZ/14 (Item 14 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00292080
**Augmented air supply for fuel cells power plant during transient load increases.**
**Erhohte Luftzufuhr fur eine Brennstoffzellenkraftanlage wahrend vorubergehender Belastungserhohungen.**
**Augmentation de l'alimentation en air des generateurs de piles lors des augmentations de charges transitoires.**
PATENT (CC, No, Kind, Date): EP 293007 A2 881130 (Basic)
EP 293007 A3 890816
EP 293007 B1 930127

11/TI,PY,AZ/15 (Item 1 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

01028971
**WIRELESS CELLULAR NETWORK ARCHITECTURE**
**ARCHITECTURE DE RESEAU CELLULAIRE SANS FIL**
Publication Year: 2003

11/TI,PY,AZ/16 (Item 2 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00995742
**SYSTEM AND METHOD FOR PERFORMING POWER MANAGEMENT ON A DISTRIBUTED SYSTEM**
**SYSTEME ET PROCEDE POUR OPERER UNE GESTION D'ENERGIE SUR UN SYSTEME DISTRIBUE**
Publication Year: 2003

**11/TI,PY,AZ/17 (Item 3 from file: 349)**


00967822
**LOW-POWER, DIFFERENTIAL OPTICAL RECEIVER IN SILICON ON INSULATOR**
**RECEPTEUR OPTIQUE DIFFERENTIEL DE FAIBLE PUISSANCE SILICIUM SUR ISOLANT**
Publication Year: 2002

**11/TI,PY,AZ/18 (Item 4 from file: 349)**


00952047
**IN SITU RECOVERY FROM A OIL SHALE FORMATION**
**RECUPERATION D'HUILE IN SITU A PARTIR D'UNE FORMATION DE SCHISTE BITUMINEUX**
Publication Year: 2002

**11/TI,PY,AZ/19 (Item 5 from file: 349)**


00908356
**PRIORITY CAR SORTING IN RAILROAD CLASSIFICATION YARDS USING A CONTINUOUS MULTI-STAGE METHOD**
**TRIAGE DE VOITURES PRIORITAIRES DANS LES GARES A FAISCEAU DE TRIAGE AU MOYEN D'UN PROCESSUS MULTI-ETAPES CONTINU**
Publication Year: 2002

**11/TI,PY,AZ/20 (Item 6 from file: 349)**


00899532
**METHODS AND APPARATUS FOR FORMULATION, INITIAL PUBLIC OR PRIVATE OFFERING, AND SECONDARY MARKET TRADING OF RISK MANAGEMENT CONTRACTS**
**PROCEDES ET SYSTEME POUR LA FORMULATION DE PREMIERES OFFRES PUBLIQUES OU PRIVEES ET LA NEGOCIATION DE MARCHE SECONDAIRE POUR DES CONTRATS DE GESTION DE RISQUES**
Publication Year: 2002

**11/TI,PY,AZ/21 (Item 7 from file: 349)**


00840236
**CONCURRENT MULTI-BAND LOW NOISE AMPLIFIER ARCHITECTURE**
**ARCHITECTURE D'AMPLIFICATEUR A FAIBLE BRUIT MULTIBANDE CONCURRENT**
Publication Year: 2001

**11/TI,PY,AZ/22 (Item 8 from file: 349)**


00784140
**A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A GLOBALLY ADDRESSABLE INTERFACE IN A COMMUNICATION SERVICES PATTERNS ENVIRONMENT**
**SYSTEME, PROCEDE ET ARTICLE DE FABRICATION S'APPLIQUANT DANS UN ENVIRONNEMENT DE STRUCTURE DE SERVICES DE COMMUNICATIONS VIA UNE INTERFACE ADRESSABLE GLOBALEMENT**

Publication Year: 2001

**11/TI,PY,AZ/23 (Item 9 from file: 349)**
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00749027
**UNIVERSAL SYNCHRONOUS NETWORK SYSTEM FOR INTERNET PROCESSOR AND WEB OPERATING ENVIRONMENT**
**SYSTEME DE RESEAU SYNCHRONE UNIVERSEL POUR PROCESSEUR INTERNET ET ENVIRONNEMENT DE FONCTIONNEMENT INTERNET**
Publication Year: 2000

**11/TI,PY,AZ/24 (Item 10 from file: 349)**
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00736340
**WDM TRANSMITTER**
**EMETTEUR MRL**
Publication Year: 2000

**11/TI,PY,AZ/25 (Item 11 from file: 349)**
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00557366
**GAS TURBINE ENGINE**
**TURBOMACHINE**
Publication Year: 2000

**11/TI,PY,AZ/26 (Item 12 from file: 349)**
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00325456
**CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM**
**COMMANDE DE TRANSITIONS ENTRE DES ETATS DE GESTION DE PUISSANCE DANS UN SYSTEME INFORMATIQUE**
Publication Year: 1996

**11/TI,PY,AZ/27 (Item 13 from file: 349)**
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00325455
**PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT**
**REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE L'INTERRUPTION DE GESTION DE SYSTEME**
Publication Year: 1996

**11/3,K/5 (Item 5 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00879276
**Suspend induced by AC power disturbance**
**Durch eine Wechselstorung verursachter Wartezustand**
**Mise en attente provoquee par une perturbation de l'alimentation en courant alternatif**
PATENT ASSIGNEE:
INTERNATIONAL BUSINESS MACHINES CORPORATION, (200123), , Armonk, NY 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
Benson IV, Paul Harrison, 3300 Coblestone Court, Raleigh, North Carolina 27613, (US)
Clark, Michael William, 612 Lafayette Drive, Hillsborough, North Carolina , (US)
Heaney, James Alfred, 7 Placid Ct., Durham, North Carolina 27713, (US)
Norris, Duane Edward, 4321 Dutch Garden Court, Raleigh, North Carolina 27613, (US)
LEGAL REPRESENTATIVE:
Zerbi, Guido Maria (77893), Intellectual Property Department, IBM United Kingdom Ltd., Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 805386 A1 971105 (Basic)
APPLICATION (CC, No, Date): EP 97302457 970410;
PRIORITY (CC, No, Date): US 639638 960429
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G06F-001/30;
ABSTRACT WORD COUNT: 165

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS A | (English) | 9710W5 | 2345 |
| SPEC A | (English) | 9710W5 | 20937 |
| Total word count - document A | | | 23282 |
| Total word count - document B | | | 0 |
| Total word count - documents A + B | | | 23282 |

...SPECIFICATION the user can finally release the switch 21 with the knowledge that the microcontroller is **now controlling** the **power supply** 17. To use this backup option, the user must press the button 21 for a...

**11/3,K/7 (Item 7 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00765196
**CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM**
**STEUERUNG DER UBERGANGE DER LEISTUNGSVERWALTUNGSZUSTANDE IN EINEM RECHNERSYSTEM**
**COMMANDE DE TRANSITIONS ENTRE DES ETATS DE GESTION DE PUISSANCE DANS UN SYSTEME INFORMATIQUE**
PATENT ASSIGNEE:
International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (Proprietor designated states: all)
INVENTOR:
CRUMP, Dwayne, Thomas, 538 Woodbine Road, Lexington, KY 40503, (US)
PANCOAST, Steven, Taylor, 3325 Pastern Court, Lexington, KY 40513, (US)
NORRIS, Duane, Edward, Apartment 2049 305 Lindenhurst Drive, Lexington, KY 40509, (US)
BENSON IV, Paul, Harrison, 310 Cochran Road, Lexington, KY 40502, (US)
LEGAL REPRESENTATIVE:
Ling, Christopher John (80401), IBM United Kingdom Limited, Intellectual

Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 780001 A1 970625 (Basic)
EP 780001 B1 991229
WO 9607964 960314
APPLICATION (CC, No, Date): EP 95930601 950831; WO 95GB2055 950831
PRIORITY (CC, No, Date): US 302147 940907
DESIGNATED STATES: BE; DE; FR; GB; IT; NL
INTERNATIONAL PATENT CLASS: G06F-001/30
NOTE:
No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS B | (English) | 199952 | 735 |
| CLAIMS B | (German) | 199952 | 637 |
| CLAIMS B | (French) | 199952 | 856 |
| SPEC B | (English) | 199952 | 36174 |
| Total word count - document A | | | 0 |
| Total word count - document B | | | 38402 |
| Total word count - documents A + B | | | 38402 |

...SPECIFICATION the user can finally release the switch 21 with the knowledge that the microcontroller is **now controlling** the **power supply** 17. To use this backup option, the user must press the button 21 for a...

**11/3,K/8 (Item 8 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS


00765195
**PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT**
**DURCHFUHRUNG VON SYSTEMAUFGABEN BEI STROMABSCHALTUNG DURCH VERWENDUNG VON SYSTEMVERWALTUNGSUNTERBRECHUNG**
**REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE L'INTERRUPTION DE GESTION DE SYSTEME**
PATENT ASSIGNEE:
International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (Proprietor designated states: all)
INVENTOR:
CRUMP, Dwayne, Thomas, 538 Woodbine Road, Lexington, KY 40503, (US)
PANCOAST, Steven, Taylor, 3325 Pastern Court, Lexington, KY 40513, (US)
LANDRY, John, Matthew, 1344 Corona Drive, Lexington, KY 40514, (US)
BENSON, Paul, Harrison, IV, 310 Cochran Road, Lexington, KY 40502, (US)
LEGAL REPRESENTATIVE:
Ling, Christopher John (80401), IBM United Kingdom Limited, Intellectual Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 780000 A1 970625 (Basic)
EP 780000 B1 991229
WO 9607963 960314
APPLICATION (CC, No, Date): EP 95930600 950831; WO 95GB2054 950831
PRIORITY (CC, No, Date): US 301464 940907
DESIGNATED STATES: BE; DE; FR; GB; IT; NL
INTERNATIONAL PATENT CLASS: G06F-001/30
NOTE:
No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS B | (English) | 199952 | 776 |
| CLAIMS B | (German) | 199952 | 639 |
| CLAIMS B | (French) | 199952 | 908 |
| SPEC B | (English) | 199952 | 35542 |
| Total word count - document A | | | 0 |
| Total word count - document B | | | 37865 |

Total word count - documents A + B 37865

...SPECIFICATION the user can finally release the switch 21 with the knowledge that the microcontroller is **now controlling** the **power supply** 17. To use this backup option, the user must press the button 21 for a...

**11/3,K/24 (Item 10 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00736340 **Image available**
**WDM TRANSMITTER**
**EMETTEUR MRL**
Patent Applicant/Assignee:
UNIVERSITY OF SOUTHAMPTON, Highfield, Southampton, Hampshire SO17 1BJ, GB , GB (Residence), GB (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
PAYNE David Neil, 13 Sylvan Lane, Hamble, Hampshire SO3 5QG, GB, GB (Residence), GB (Nationality), (Designated only for: US)
ZERVAS Michael Nickolaos, 3 Clifford Dibben Mews, Avenue Road, Southampton, Hampshire SO14 0TP, GB, GB (Residence), GR (Nationality), (Designated only for: US)
IBSEN Morten, 10 Summit Way, Southampton, Hampshire SO18 4ST, GB, GB (Residence), DK (Nationality), (Designated only for: US)
Legal Representative:
HAINES Miles John, D. Young & Co., 21 New Fetter Lane, London EC4A 1DA, GB
Patent and Priority Information (Country ~~Number~~, Date):
Patent: WO 200049687 A1 20000824 (WO 0049687)
Application: WO 2000GB583 20000218 (PCT/WO GB0000583)
Priority Application: GB 993880 19990219
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 5292

Fulltext Availability:
Detailed Description

Detailed Description
... is such that wavelength division multiplexing (WDM) of optical channels is required to overcome the **bottleneck** in capacity which arises in time-divisionmultiplexed (TDM), single-wavelength systems due to speed limitations of electronic circuits. State-of-the-art commercial systems use up to sixteen **simultaneous** channels 1 5 to **increase** system **capacity** but the demand for capacity will continue to increase.

Although the capacity of the third...

**11/3,K/27 (Item 13 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00325455
**PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT**

**REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE L'INTERRUPTION DE GESTION DE SYSTEME**

Patent Applicant/Assignee:
INTERNATIONAL BUSINESS MACHINES CORPORATION,
IBM UNITED KINGDOM LIMITED,
Inventor(s):
CRUMP Dwayne Thomas,
PANCOAST Steven Taylor,
LANDRY John Matthew,
BENSON Paul Harrison IV,

Patent and Priority Information (Country, Number, Date):
Patent: WO 9607963 A1 19960314
Application: WO 95GB2054 19950831 (PCT/WO GB9502054)
Priority Application: US 94301464 19940907
Designated States: CZ HU PL RU AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 37686
Fulltext Availability:
Detailed Description

Detailed Description

... the user can finally release tile switch 21 with the knowledge that tile microcontroller is **now controlling** the **power supply** 17.

To ivie this brickup option, the user must press the button 21 for a...

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STN

FILE 'CONFSCI, ELCOM, ENERGY, ENTEC' ENTERED AT 15:07:28 ON 06 OCT 2003
L1       2324655 S POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES O
L2             2 S S1(2W)(NETWORK# OR GRID)
L3          4504 S FLOW()GATE# OR FLOWGATE# OR BOTTLENECK? OR BOTTLE()NECK# OR B
L4       1864040 S NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARRANG
L5        379119 S SUPPLY OR CAPACITY OR QUANTIT###
L6        590192 S (REAL OR SAME)()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR I
L7          1622 S L1 AND L3 AND L4
L8           121 S L1 AND L3 AND L4 AND L5 AND L6
L9             7 S (L1(5A)L3) AND (L4(5A)L5) AND L6
L10            4 S (L1(5A)L3)(S)(L4(5A)L6)
```

EKD 10/06/2003

STN

L9 ANSWER 1 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 2002(6):19732 ENERGY
TI Electricity 2002:The annual industry review.
CS Canadian Electricity Association. Montreal, PQ (Canada)
SO Montreal, PQ: Canadian Electricity Association. 2002. 34 p. Published as vol. 73, number 1 of the Canadian Electricity Association Annual Review. Available from the Canadian Electricity Association, 1155 Metcalfe Street, Suite 1120, Montreal, PQ, Canada. H3B 2V6. Telephone: (613) 230-9263. Fax: (613) 230-9326.
DT Miscellaneous; Progress Report; Availability Note
CY Canada
LA English
FA AB
AB The annual review of the Canadian Electricity Association for 2001 reports major changes in the industry, including going from allocating equipment less than 12 months ago to trying to find outlets for excess inventory. While electricity prices were ridiculously high 12 months ago, during the past year they went to levels where generators could not make a justifiable return on their investment. Forecasters went from saying that shortages of power would soon be causing blackouts to forecasting that inefficient plants would be mothballed due to excess supply. Steps taken towards a more open and competitive marketplace progressed to a controversial debate as the California saga unfolded. And, to top it all off, there was the Enron debacle at year end. Despite these ups and downs across the continent the Canadian electrical industry continued to face growing demands for power. To generate, transmit and distribute this power the industry is in need of large amounts of capital and engineering talent in order to build the infrastructure critical to continuing to provide the level of service customers have come to expect. This must be done at the same time as other issues also demand greater attention. Environmental issues, especially climate change and global warming, are more controversial than ever. The role of regulatory authorities is under severe questioning, as many power generators operating in regulated environments find their allowed rates to be significantly below regulated rates in the United States. Ratification and implementation of the Kyoto Protocol poses many difficult challenges for the Canadian electricity industry as well as for Canada as a whole, while infrastructure protection, always a high priority, has assumed an even greater profile following September 11. These and other challenges facing the industry are discussed in a series of articles comprising this issue. Despite the difficulties and obstacles of the past year, the industry's task is clear: it must increase investment and build new capacity to supply the power required by Canadians and by Canadian industry, the latter to maintain its competitive capacity in international markets, upon which the prosperity and well being of all Canadians depend
CC *S20 Fossil-fueled power plants
S24 Power transmission and distribution
CT ELECTRIC POWER INDUSTRY; CANADA; PROGRESS REPORT
BT DEVELOPED COUNTRIES; DOCUMENT TYPES; INDUSTRY; NORTH AMERICA

L9 ANSWER 2 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 2001(20):89843 ENERGY
TI Submetering: increased interest in a low-cost technology.
AU Millstein, D. (E-MON Corp., Langhorne, PA (United States))
SO Electricity Today (Jun 2001) v. 13(6) p. 10, 12-13.
CODEN: ELTDER ISSN: 0843-7343
DT Journal
CY Canada
LA English

EKD 10/06/2003

STN

FA AB

AB Warning signals reach Canada, indicating that the country suffers from constrained power supply in the Pacific Northwest. This situation is a result of rising electricity costs, increasing power consumption and supply unpredictability. As they undergo restructuring, several Canadian provinces are keeping an eye on the situation in California, where rolling blackouts occur and electricity prices have skyrocketed. Last year alone, electricity prices in Alberta quadrupled. The problems experienced in California are helping Canadians implement cost saving options and avoid the pitfalls of deregulation. In Ontario, electricity prices could rise by at least 20 per cent in two years, as estimated by Energy Probe, a Canadian consumer and environmental advocacy group. As a result, there is a noted increase in interest in submetering technology. This technology is cost-effective, easy to install and has a proven track record for lowering energy bills. Energy usage data is gathered and delivered real-time to facility operators, allowing proactive measures to be implemented when required. Comprehensive energy profiling is achieved through a combination of submetering equipment and software. The data is then utilized for peak shaving, load shedding, aggregation and others to lower energy bills. It displays to the energy manager the amount of energy distributed to the various departments, tenants, or processes within the building or facility. The information can be displayed either on a centralized or remote Windows-based personal computer (PC) operator interface. The system can be read anytime, from anywhere using Automatic Meter Reading (AMR). Some of the features are Demand Side Management (DSM) programs and Energy Management System (EMS) performance analyses. This information allows the manager flexibility on billing and allocation, cost center analysis, energy use verification and demand control and analysis to save money and energy. The submeters are installed after the master meter in a facility. There is no need to power down the load to install. By hooking three current sensors around the electrical feeds being measured allows electricity monitoring. Time and cost to install are approximately 25 per cent of the time and cost necessary for a utility to install a dedicated meter on the same circuit. 3 refs., 4 figs

CC *S29 Energy planning, policy and economy

CT ELECTRIC MEASURING INSTRUMENTS; POWER METERS; ENERGY EXPENSES; ENERGY DEMAND; ENERGY MANAGEMENT SYSTEMS; DATA ANALYSIS

BT CONTROL SYSTEMS; DEMAND; ELECTRIC MEASURING INSTRUMENTS; ELECTRICAL EQUIPMENT; ENERGY SYSTEMS; EQUIPMENT; MEASURING INSTRUMENTS; METERS

L9 ANSWER 3 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN

AN 1993(22):140890 ENERGY

TI Energy and economic development in isolated regions: a case study.

AU Munoz, A.; Maldonado, P. (Chile Univ., Santiago (Chile). Facultad de Ciencias Fisicas y Matematicas)

NR CONF-920923--

SO Renewable energy: technology and the environment. V. 5: Related topics. Proceedings.
Editor(s): Sayigh, A.A.M. (Reading Univ. (United Kingdom). Dept. of Engineering)
World Renewable Energy Co. Ltd., Reading (United Kingdom) (9051107)
Oxford: Pergamon Press. 1992. p. 2639-2643 of 744 p. Conference published in 5 v.
Conference: 2. world renewable energy congress, Reading (United Kingdom), 13-18 Sep 1992
ISBN: 0 08 041278 5

DT Book Article; Conference

CY United Kingdom

EKD 10/06/2003

STN

LA English
FA AB
AB High production costs and inadequate supply of electricity are severe handicaps to economic development in remote areas. Costs are increased further by the low level and high variability of electric loads. In order to face these problems a simultaneous development of wind diesel energy resources and productive projects with demand management is proposed. This paper illustrates such a case in Southern Chile where present electricity costs are reduced as consumption is increased from 85 to 468 KWh/person/year. A new refrigeration plant increases the storage capacity for the small fishing activity and effectively uses the output of wind energy generators. (author)
CC *290201; F1500
CT DEVELOPING COUNTRIES; DIESEL ENGINES; ECONOMIC DEVELOPMENT; ELECTRIC POWER; REMOTE AREAS; WIND TURBINES
*WIND TURBINES: *DIESEL ENGINES; *DEVELOPING COUNTRIES: *ELECTRIC POWER; *DEVELOPING COUNTRIES: *WIND TURBINES
BT ENGINES; EQUIPMENT; HEAT ENGINES; INTERNAL COMBUSTION ENGINES; MACHINERY; POWER; TURBINES; TURBOMACHINERY
ET V

L9 ANSWER 4 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1987(10):71935 ENERGY
TI Constraints on nuclear power development in the United States.
AU Brandfon, W.W. (General Analytical Div., Sargent and Lundy, Engineers, Chicago) [United States]
SO Global energy assessment and outlook.
Kursunoglu, B.N.; Perlmutter, A.; Scott, L.
New York, NY: Harwood Academic Pub. 1984. pp. 129-130
ISBN: 3-7186-0224-5
DT Book Article
CY United States
LA English
AB The U.S. nuclear option appears, at this time, to be disappearing. Determinants of energy supply seem to be changing from engineering and economic factors to other considerations. Regulatory and financial constraints now appear to be dominating the guidelines for electrical energy expansion. American electric utilities, for the most part, have not been able to obtain sufficient revenues to cover their costs of production. What price increases that they are being allowed to charge their customers come too late to keep up with inflation. They require increasing quantities of outside funding in the form of debt and equity capital. This they can only obtain at record high rates, if at all. Most utilities are not even earning what their regulators have determined are fair returns. Financial problems and regulatory tangles severely affect nuclear power, despite its proven technology and environmental and economic benefits. If the United States loses the nuclear alternative, the economic consequences of limiting fuels for electric base load generation to coal only will be severe; analogous to a monopoly situation in fuel supply. It is doubtful, despite the huge resources of coal, that the coal industry can satisfy even a reduced future demand. The question then becomes whether the technological leader of the world may in the future be faced with blackouts and rationing of electricity.
CC *290600; 290500; 293000; 292000; F1400
CT *NUCLEAR INDUSTRY: *CONSTRAINTS; *NUCLEAR POWER: *ENERGY SOURCE DEVELOPMENT; DEMAND; ECONOMICS; ENERGY MANAGEMENT; ENERGY POLICY; ENERGY SUPPLIES; FINANCING; FORECASTING; REGULATIONS; SAFETY; SUPPLY DISRUPTION
BT GOVERNMENT POLICIES; INDUSTRY; MANAGEMENT; POWER

EKD 10/06/2003

STN

L9 ANSWER 5 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1982(17):126141 ENERGY
TI Energy situation of India.
AU Ritapal, K. [Germany,Federal Republic of]
SO Glueckauf (23 Jul 1981) v. 117(14) p. 900-904, 403-406
CODEN: GLUEAJ ISSN: 0340-7896
DT Journal
CY Germany,Federal Republic of
LA German; English
AB India, which as a surface area of some 3.28 m km2 and a population of around 650 million people, is still predominantly an agrarian country. Since development plans were introduced in 1950/51, great progress has been made in industrialization. However, there are still bottle necks in the transport, energy production and energy distribution sectors. India's development plans provide for economic growth of 4.7 to 5.5% per annum (from 1983) with different growth rates in the various sectors (agriculture: approximately 4%, mining and industry: 7%, energy: 11%, building: 10%, and transport: 6%). Developing countries have to cope at the same time with population growth, claims for a higher standard of living and the increasingly difficult problem of energy supply. Today, it is generally recognized that the energy situation in these countries cannot be treated separately from the energy supply of the industrialized nations. According to information collected by the World Bank, India's energy consumption - in relation to its gross national product - is the greatest of any of the developing countries.
CC *290000
CT *INDIA: *ENERGY SUPPLIES; COMPARATIVE EVALUATIONS; DEVELOPING COUNTRIES; ENERGY DEMAND; ENERGY SOURCES; FORECASTING; IMPORTS; PETROLEUM; PRODUCTION; RESERVES; RURAL AREAS
BT ASIA; DEMAND; DEVELOPING COUNTRIES; ENERGY SOURCES; FOSSIL FUELS; FUELS; RESOURCES

L9 ANSWER 6 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1982(15):109327 ENERGY
TI Supply-side approach to energy policy.
AU Bejan, M. (Univ. of California, Berkeley); Bejan, A. [United States]
SO Energy Policy (Jun 1982) v. 10(2) p. 153-157
CODEN: ENPYAC
DT Journal
CY United Kingdom
LA English
DN EPA-08:003662
AB Existing energy-policy proposals are approached from a demand-side perspective to solve the immediate problem of meeting existing demands defined by existing technologies. However, a constructive forward-looking policy requires a supply-side perspective. The purpose of energy policy is ultimately the efficient allocation of the scarce supply of available energy or exergy. The authors outline a proposal for efficient energy management. This supply-side orientation is based upon basic thermodynamic principles, thus offering a foundation for formation of consistent criteria for policy-oriented decision making. 4 figures.
CC *293000; 292000
CT *ENERGY SUPPLIES: *ENERGY POLICY; *ENERGY POLICY: *ENERGY SUPPLIES; ENERGY DEMAND; ENERGY MANAGEMENT; THERMODYNAMIC PROPERTIES; USA
BT DEMAND; GOVERNMENT POLICIES; MANAGEMENT; NORTH AMERICA; PHYSICAL PROPERTIES

L9 ANSWER 7 OF 7 ENTEC (C) 2003 FIZ Technik on STN
AN 2001:0028668 ENTEC

EKD 10/06/2003

STN

TI Improved system performance by integration of adjustable speed hydro (ASH) machines.

AU Sporild, R.; Gjerde, J.O.; Gjengedal, T.
CS ABB Corp. Res., Billingstad (NO)

SO PowerCon 2000. 2000 International Conference on Power System Technology. Proceedings (Cat. No.00EX409), 4-7 Dec. 2000, Perth, WA, Australia. Piscataway: IEEE Operations Center (www.ieee.org). 2000. p. 415-420. v. 1.
Konferenz: PowerCon 2000: 4. international conference on power system technology, Perth (AU), 4-7 Dec 2000
ISBN: 0-7803-6338-8
DT Kapitel der Monographie; Konferenz
LA Englisch
FA AB
IP FIZ Technik

AB The main purpose of this paper is to show how the adjustable speed hydro (ASH) machine behaves with respect to transient and dynamic conditions in power systems. The ASH machine gives a contribution to increased efficiency in the penstock/turbine system as well as an improved flexibility with respect to the electrical system. By means of its quick response to network events, the ASH machine is able to obtain an increased stability margin and thereby a more safe operation of the power system. With proper location and parametrisation of power system stabilisers (PSS), the ASH machine can make considerable support to damping of large scale power oscillations in transmission networks. On the other hand, this represents new opportunities for the power producer as well as for the system operator in utilising the transmission network even better. The paper has shown that transmission lines appearing as bottlenecks with respect to power demand may increase their transfer capacity as ASH machines are introduced in the network. In turn, this may lead to a postponement of high investment costs for new overhead lines. Furthermore, the paper has given a quantification of how much the power export out of an example region can be increased due to introduction of ASH machines

CC *S24 Power transmission and distribution
S99 General and miscellaneous
ST DAEMPFUNG; WASSERTURBINE; WASSERKRAFTGENERATOR; SYNCHRONGENERATOR; ELEKTRISCHES NETZ (ENERGIENETZ); REGELGETRIEBE; STABILITAETSGRENZE; FREILEITUNG; KOSTEN-NUTZEN-ANALYSE; ENERGIENETZSTABILITAET; DYNAMISCHE BEDINGUNG; EINSCHWINGZUSTAND; ENERGIENETZSTABILISIERUNGSEINRICHTUNG

EKD 10/06/2003

STN

L10 ANSWER 1 OF 4 ELCOM COPYRIGHT 2003 CSA on STN
AN 1999:2066 ELCOM
TI Adaptive speed control of a general-purpose processor based on activities
AU Furuichi, Sanehiro; Aihara, Toru
CS Tokyo Research Lab, Yamato-shi, Jpn
SO IEICE TRANS ELECTRON, (19980900) vol. E81-C, no. 9, pp. 1481-1483.
ISSN: 0916-8524.
DT Journal
FS E
LA English
AB This paper proposes a new method for **dynamically controlling** the clock speed of a processor in order to reduce power consumption without decreasing system performance. It automatically tunes the processor's speed by monitoring its activities and avoiding useless work so as not to exhaust the battery **energy**. Experiments with performance **bottlenecks** caused by disk activities show that the proposed method is very effective in comparison with the traditional one, in which the processor's speed is fixed.
CC 722. Digital Computers and Systems; 731. Specific Variables Control; 713. Pulse Circuits
UT Speed control; Timing circuits; General-purpose processors

L10 ANSWER 2 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1994(17):115348 ENERGY
TI An integrated methodology for power system restoration planning.
AU Huang Jinan
CS McGill Univ., Montreal, PQ (Canada). Dept. of Electrical Engineering (4040100)
SO Thesis (Ph.D.). Montreal, PQ: McGill Univ. Aug 1992. 260 p. MF Micromedia Ltd., 240 Catherine Street, Suite 305, Ottawa, Ontario, Canada K2P 2G8 $15 CAN.
ISBN: 0-315-87715-4
DT Book; Dissertation
CY Canada
LA English
FA AB
AB A study is presented of power system restoration planning. An integrated methodology is proposed for restoration planning which incorporates heuristics, algorithms, a friendly graphical user interface and databases. Heuristics provide rules for dividing the power system to be restored into subsystems to be restored independently, for selecting suitable scenarios from the scenario library, and for creating appropriate scenarios when they do not exist in the library. The optimization algorithm systematically ensures the feasibility of a defined restoration scenario as well as giving an optimum solution for all controllable variables in the sense of minimizing the number of control variable adjustments from stage to stage. The optimization algorithm reduces the duration of the restoration procedure which is a critical consideration during power blackouts. The interactive interface facilitates the creation of restoration plans directly on the dynamic diagram of the network as well as displaying simulation and optimization results. Databases contain the graphical representation of power systems and their numerical data. 106 refs., 67 figs., 32 tabs.
CC *240100
CT COMPUTER CODES; EXPERT SYSTEMS; OPERATION; OUTAGES; PLANNING; POWER SYSTEMS
*POWER SYSTEMS: *EXPERT SYSTEMS; *POWER SYSTEMS: *OUTAGES
BT ENERGY SYSTEMS

EKD 10/06/2003

STN

L10 ANSWER 3 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1991(13):82092 ENERGY
TI Survey of Canadian electrical inspection authorities re service entrance upgrading practices.
AU Bouchard, J.E
CS Neill and Gunter Ltd., Dartmouth, NS (Canada) (9901299)
NR CEA--444UATS; CE--03589
SO Jun 1986. 24 p. Canadian Electrical Association, One Westmount Square, Suite 500, Montreal, PQ, CAN H3Z 2P9. Prices: $75.00 NON-MEMBERS; MEMBERS: PRICES UPON REQUEST, FUNDS CAN.
DT Report; Availability Note
CY Canada
LA English
FA AB
AB A typical residential electrical service entrance represents a bottleneck to increased loads such as add-on electric heating. Traditional methods of upgrading the service usually meant replacing the entire service entrance system, which is very costly. A study was undertaken to identify possible economical upgrading methods. The study included a survey of Canadian utilities and inspection authorities to examine their opinions on the proposed upgrading methods. Results of the survey are presented on questions regarding recommended maximum loads, adding additional cables in existing conduits, retrofitting of reinforcing devices to power meters, use of double-lugged meter mounting devices, power meter location, use of fuse clip clamps, wiring of panelboards, use of combination panelboards, use of live splitters, and use of load management panelboards. The acceptability of the suggested upgrading methods was very low among inspection authorities, averaging 26.5% in favor. The acceptance among utilities was 54.5%. 4 figs.
CC *240201
CT CANADA; MODIFICATIONS; POWER DISTRIBUTION SYSTEMS; RESIDENTIAL SECTOR; SURVEYS
*RESIDENTIAL SECTOR: *POWER DISTRIBUTION SYSTEMS
BT NORTH AMERICA

L10 ANSWER 4 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1982(24):178231 ENERGY
TI Recovering waste heat from operation of small industrial diesel engines.
AU Kauffmann, W.M. [United States]
SO Plant Eng. (15 Apr 1982) v. 36(8) p. 77-79
CODEN: PLENAV ISSN: 0032-082X
DT Journal
CY United States
LA English
AB Key elements in rapid advance of diesel engine technology are the vast improvement in fuel injection equipment and the use of turbochargers for small engines. Speeds of diesel engines have also increased and now range from 2000 to 3600 rpm. Several factors should be considered in the selection and application of diesel engines: combustion chamber design, fuel injection equipment, engine and cylinder construction, lubrication system, turbocharger, aftercooler (when used), torque/speed and fuel consumption curves, heat recovery, and operating costs. Operating costs of small industrial diesel engines must be compared with purchased power costs. The availability of onsite power also eliminates concern for blackouts or energy curtailment. The recovery of steam may be an important addition to the total available energy and affects actual operating cost.
CC *320304
CT *INDUSTRIAL PLANTS: *DIESEL ENGINES; *DIESEL ENGINES: *HEAT RECOVERY;

EKD 10/06/2003

STN

COMBUSTION CHAMBERS; FUEL INJECTION SYSTEMS; OPERATING COST; DESIGN

EKD 10/06/2003

```
File  15:ABI/Inform(R) 1971-2003/Oct 04
         (c) 2003 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2003/Oct 03
         (c) 2003 Resp. DB Svcs.
File 610:Business Wire 1999-2003/Oct 06
         (c) 2003 Business Wire.
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 275:Gale Group Computer DB(TM) 1983-2003/Oct 03
         (c) 2003 The Gale Group
File 476:Financial Times Fulltext 1982-2003/Oct 06
         (c) 2003 Financial Times Ltd
File 624:McGraw-Hill Publications 1985-2003/Oct 03
         (c) 2003 McGraw-Hill Co. Inc
File 636:Gale Group Newsletter DB(TM) 1987-2003/Oct 03
         (c) 2003 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Oct 06
         (c) 2003 The Gale Group
File 613:PR Newswire 1999-2003/Oct 06
         (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File  16:Gale Group PROMT(R) 1990-2003/Oct 03
         (c) 2003 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 634:San Jose Mercury  Jun 1985-2003/Oct 04
         (c) 2003 San Jose Mercury News
File 148:Gale Group Trade & Industry DB 1976-2003/Oct 06
         (c)2003 The Gale Group
File  20:Dialog Global Reporter 1997-2003/Oct 06
         (c) 2003 The Dialog Corp.
File 995:NewsRoom 2000
         (c) 2003 The Dialog Corporation

Set      Items   Description
S1      114282   (POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITI-
              ES OR ENERGY)(2W)(NETWORK? ? OR GRID)
S2      304631   FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NEC-
              K? ? OR BLACKOUT? OR BLACK??()OUT? ? OR (INSUFFICIEN? OR INAD-
              EQUATE OR SCARCE OR DEFICIENT OR ("NOT"()ENOUGH) OR SHORT)()(-
              SUPPLY OR CAPACITY)
S3      511783   (NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR AR-
              RANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR H-
              ANDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS?)(2-
              W)(SUPPLY OR CAPACITY OR QUANTIT???)
S4    24249061   (REAL OR SAME)()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR
               IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP(1W)D-
              ATE OR UP(2W)MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCU-
              RRENT? OR BEHIND(2W)SCENE? OR ON()FLY
S5          523   S1 AND S2 AND S3 AND S4
S6            0   (S1(5N)S2) AND (S3(5N)S4)
S7           26   S1 AND S2 AND (S3(5N)S4)
S8           14   S7 NOT PD>20000404
S9           11   RD (unique items)
```

9/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)


01991179 49450136
**NAS systems offer lifeline to overburdened networks**
Williamsen, Bob
Computer Technology Review v20n1 PP: 50-51+ Jan 2000
ISSN: 0278-9647 JRNL CODE: GBAMN
WORD COUNT: 1124

...TEXT: applications, traditional server-based storage solutions are being Pushed two the breaking point. Even beyond **bottlenecks** , network crashes, and data corruption, the need for management and day-to-day troubleshooting is...

...can be up and running in less than 10 minutes. All that is required is **power** , a **network** connection, and a valid IP address to serve and store critical data. A look behind...

...staff intervention.

Ease of installation - Adding a NAS system to an already overworked server can **immediately increase** storage **capacity** --either to all or selected users. Installation can be as simple as attaching **power** and **network** cables, entering the IP address information through the front panel, setting up volumes, shares, and... in freeing IT from non-productive, resource issues. Whether these systems are deployed to relieve **bottlenecks** and capacity issues from file and print services or to support growing Webbased service environments...

9/3,K/2 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)


01980603 49076354
**Creating a smart power-delivery system**
Lewis, Stuart M
Transmission & Distribution World v52n1 PP: 34-41 Jan 2000
ISSN: 1087-0849 JRNL CODE: TMD
WORD COUNT: 2935

...TEXT: the while realizing that we could be contributing to conditions that lead to brownouts and **blackouts** . Widespread outages in Chicago and New York in the summer of 1999 made it only...

... distribution systems that make up our grid must be transformed into an electronically controlled, smart **electricity network** if we are to support our rapidly changing digital economy," says Kurt Yeager, president and...

... these controllers allow transmission lines to be loaded closer to their inherent thermal limits, effectively **increasing** their **capacity** .

FACTS controllers are **now** entering utility service after a 20-year development stage. One recent example is the unified...
... It can force a line to carry power that would naturally flow elsewhere, thereby eliminating **bottlenecks** and diverting power to underused paths. Renz says this is the first time that transmission...Western Area Power Administration are installing the WAMS information network in the western United States **power grid** . It was precipitated by the wide area power outages in the western United States in...

...transient disturbances. Batteries that can respond rapidly have been too expensive for widespread use. The **power - grid** of the future needs

storage technology that is fast and inexpensive and that can be... implementation of these solutions is being delayed until restructuring policies encourage greater investment in the **power grid** , or at least do not discourage investment. Until then, the risk of major power interruptions...

**9/3,K/3 (Item 3 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)


01969979 44651965
**Transmission by de$ign**
White, Anthony; Stahlkoph, Karl
Electric Perspectives v24n5 PP: 20-29+ Sep/Oct 1999
ISSN: 0364-474X JRNL CODE: ELP
WORD COUNT: 4002

...TEXT: should be incorporated is fundamental and reveals the difficulties of applying simple economic theory to **electricity networks** . Transmission charges could be incorporated in the nodal electricity price-that is, the price at...higher current;

* deploying flexible alternating current transmission system (known as FACTS) devices (see the sidebar, " **Increasing** the **Capacity** of Existing Transmission Networks");

* developing **live** -wire maintenance;

* negotiating tougher constraint contracts with generators;

* encouraging the development of load management by...transmission systems are being expected to perform functions for which they were not designed, and **bottlenecks** are becoming evident. Just how close some grids are to their stability limits was illustrated...

**9/3,K/4 (Item 4 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)


01648918 02-99907
**Understanding packet-by-packet and flow-based switching for Layer 3 networks**
Tuinzing, Reinier
Computer Technology Review v18n5 PP: 12-16 May 1998
ISSN: 0278-9647 JRNL CODE: CTN
WORD COUNT: 2199

...TEXT: to new patterns and network architectures. If not deployed with a balanced network in mind, **bottlenecks** and errors may occur. A balanced network matches nodes to network capacities, and creates a network hierarchy with no **bottlenecks** , thus increasing efficiency. In an ideal configuration, the client, server, and network are operating in...

... in switches and are silicon-based, as opposed to software-based, solutions. They offer the **power** of **network** routers while operating at nearswitching speed. Obviously, multi-gigabit routers can also move large amounts...3 switches across the network, eliminating the possibility that a centralized switch can become a **bottleneck** or point of failure.

Another distinct advantage of packet-bypacket switches for IT managers is ... relatively painless. By inserting these switches at selected points in the network, IT managers can **increase** their network **capacity** incrementally, while at the **same time** enjoying the opportunity for a real-world evaluation of this technology, including interoperability

 EKD October 6, 2003

testing with...

... winning scenario for everyone and to eliminate those sleepless nights filled with dreams of crashes, **bottlenecks** , and, worst of all, those dreaded phone calls from angry users.

Author Affiliation:

Reinier Tuinzing...

**9/3,K/5 (Item 5 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)


01573075 02-24064
**Construction projects span the globe**
George, Gerry
Transmission & Distribution World v50n1 PP: 38-48 Jan 1998
ISSN: 1087-0849 JRNL CODE: TMD
WORD COUNT: 2723

...TEXT: existing 500-kV ac transmission network between Guangxi and Guangdong provinces in south China has **insufficient capacity** to provide the west to east bulk power **transfer** needed to **supply** the industrial and commercial development **now** in progress between Guangzhou and Hong Kong. The China National Technical Import and Export Corporation ...

... to Shanghai providing a 1200 MW interconnection between the east China and central China regional **power networks** .

The specification for the scheme should ensure that optimum performance in terms of system availability...

... Wales system is via Victoria. The load forecast for 1999 indicates that South Australia has **insufficient capacity** to supply its summer peak load. An additional 275-kV transmission line to directly link...

**9/3,K/6 (Item 6 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)


01508812 01-59800
**Regional power markets: Roadblock to choice?**
Wojick, David E
Public Utilities Fortnightly v135n18 PP: 28-32 Oct 1, 1997
ISSN: 1078-5892 JRNL CODE: PUF
WORD COUNT: 2968

...TEXT: federal generating and marketing agencies.

That's the wholesale market. But the wonderful strangeness of **electricity** makes the **grid** a commodity market like no other. Consider the term "loop flow." It was coined by...

... they are bound by legal preference. Large IOUs have opted to buy power rather than **increase** generating **capacity** ; IOU's purchased power costs **now** equal fuel costs. The control centers also have worked hard to find cheap power. However...least several unpredictable weeks a year. Otherwise, the nation would run short of power and **black out** because electricity, unlike other commodities, can't be sold on a first-come basis. But...

**9/3,K/7 (Item 1 from file: 624)**

DIALOG(R)File 624:McGraw-Hill Publications
(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

00806280
**How can the flow of power be controlled?**
Electrical World October 1996; Pg 28; Vol. 210, No. 10
Journal Code: EW ISSN: 0013-4457
Section Heading: Special Report: Competition deregulation: Is the US rushing into the dark?
Word Count: 802 *Full text available in Formats 5, 7 and 9*

TEXT:
...little or no control flexibility to meet changing network conditions.
All power generators supply reactive **power** to the **network** as well as active power. The proportion can be controlled by controlling the excitation. The...

... now in operation around the world on critical transmission lines and where there are power **bottlenecks** .
A synchonous compensator is the solid-state equivalent of the rotating **synchronous** condenser. It provides a continuously **controllable supply** of reactive power and does not need space-consuming banks of capacitors and inductors. The...

**9/3,K/8 (Item 1 from file: 636)**
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

04611010 Supplier Number: 60585270 (USE FORMAT 7 FOR FULLTEXT)
**Creating a Smart Power-Delivery System.**
Transmission & Distribution World, pNA
Jan, 2000
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 2895

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...the while realizing that we could be contributing to conditions that lead to brownouts and **blackouts** . Widespread outages in Chicago and New York in the summer of 1999 made it only...
... distribution systems that make up our grid must be transformed into an electronically controlled, smart **electricity network** if we are to support our rapidly changing digital economy," says Kurt Yeager, president and...these controllers allow transmission lines to be loaded closer to their inherent thermal limits, effectively **increasing** their **capacity** .
FACTS controllers are **now** entering utility service after a 20-year development stage. One recent example is the unified...

...It can force a line to carry power that would naturally flow elsewhere, thereby eliminating **bottlenecks** and diverting power ...Western Area Power Administration are installing the WAMS information network in the western United States **power grid** . It was precipitated by the wide area power outages in the western United States in...transient disturbances. Batteries that can respond rapidly have been too expensive for widespread use. The **power grid** of the future needs storage technology that is fast and inexpensive and that can be...implementation of these solutions is being delayed until restructuring policies encourage greater investment in the **power grid** , or at least do not

**9/3,K/9 (Item 2 from file: 636)**
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

03902206 Supplier Number: 50079038 (USE FORMAT 7 FOR FULLTEXT)
**HEWLETT-PACKARD: Simplex Interconnect verification tools combine with HP's 64-Bit operating system**
M2 Presswire, pN/A
June 16, 1998
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 817

RDATE:150698
-- To give chips **increased** speed and **capacity**
Designers of Multimillion-transistor Chips **Now** Can Extract and Analyze Much Larger Designs Than Previously Possible
Hewlett-Packard Company and Simplex...

...to keep up with the continuous explosion in design sizes by avoiding the run-time **bottleneck** of a single processor."
"We are delighted to offer Simplex's advanced software technology on ...

...integrity and electromigration analysis. Fire & Ice extracts the interconnect RC parasitics, transistors, discrete components and **power grid** for multimillion-transistor circuits in a matter of hours, providing the accuracy of 3-D...

**9/3,K/10 (Item 1 from file: 148)**
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

07979523 SUPPLIER NUMBER: 17222804 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Freeing Indian steel. (steel industry) (includes related articles) (Indian Steel: Restructuring) (Industry Overview)**
Narayan, N.
New Steel, v11, n6, p22(6)
June, 1995
DOCUMENT TYPE: Industry Overview LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3415 LINE COUNT: 00266

... an enormous amount of money in the steel industry both to modernize plants and to **increase** production **capacity** . Between **now** and 2001, Sail alone plans to spend $7 billion to upgrade its technology and expand ...

...owned and controlled by the state. The infrastructure - transport, ports, and power - has big problems: **insufficient capacity** , outmoded methods and technology, and a very poor work culture. This is the biggest roadblock...tons during this time; India didn't begin its economic liberalization until mid-1991.
The **insufficient supply** of Indian steel also suppressed per-capita consumption of steel. Between 1950 and 1990, China...to 2 metric tons.
These plants used energy inefficiently, but they made money by stealing **power** from the **grid** and by not paying excise and sales taxes on their ingots. There is no valid...

**9/3,K/11 (Item 2 from file: 148)**
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

07507865 SUPPLIER NUMBER: 15717627 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Demand soars as supplies run short. (MEED Special Report: Power)**
Blair, Edmund; Blum, Charlotte; Butter, David; Hindley, Angus; Kemp, Peter; Marks, Jon; Petrossian, Vahe
MEED Middle East Economic Digest, v38, n33, p27(10)

August 19, 1994
ISSN: 0047-7230 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 7787 LINE COUNT: 00604

TEXT:

...new generating capacity. Due to an explosion of domestic and industrial demand regional utility companies **now** face the need to **increase supply** by rates of up to 15 per cent a year. Power cuts can occur at...

... systems

Israel is the main source of electricity, but many local firms generate their own **power** because the **grid** system is so unreliable and connection charges often far exceed the cost of buying and...of its capacity but, after almost four years of UN sanctions, spare parts are in **short supply** and several of the country's power stations are not functioning.

The government is regularly...sector involvement in the industry, as part of its overall privatisation programme.

LEBANON

RESTORING THE **power network** has been one of the top priorities of Lebanon's reconstruction programme. Installed capacity is...

...are due to be opened by the end of August.

The quick work on the **power network** has already meant that power is available for at least 12 hours a day. By...Authority also invited two sets of bids in early July for the installation of the **power** distribution **grid** as part of the second phase of the great manmade river. The first, worth around...and connect the 90-MW plant, complete with substations and transmission lines to the national **power grid** , over two years, and sell power to the government for 20 years. The total cost...

...29:7:94).

Oil is the preferred fuel for power projects, as gas is in **short supply** . But the new policy is also aimed at exploiting coal deposits, which were boosted by...

...Fontas B has been fully commissioned.

Of more immediate interest to international contractors is the **power** distribution **network** . MEW is expected to invite bids soon for the long-planned phase four of the...

```
File 347:JAPIO Oct 1976-2003/May(Updated 030902)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200363
         (c) 2003  Thomson Derwent
File  35:Dissertation Abs Online 1861-2003/Sep
         (c) 2003 ProQuest Info&Learning
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File  65:Inside Conferences 1993-2003/Oct W1
         (c) 2003 BLDSC all rts. reserv.
File   2:INSPEC 1969-2003/Sep W4
         (c) 2003 Institution of Electrical Engineers
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
         (c) 2003, EBSCO Pub.
File 474:New York Times Abs 1969-2003/Oct 03
         (c) 2003 The New York Times
File 475:Wall Street Journal Abs 1973-2003/Oct 03
         (c) 2003 The New York Times
File  99:Wilson Appl. Sci & Tech Abs 1983-2003/Aug
         (c) 2003 The HW Wilson Co.
File  95:TEME-Technology & Management 1989-2003/Sep W3
         (c) 2003 FIZ TECHNIK

Set      Items   Description
S1     6960769   POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES
                 OR ENERGY OR CURRENT
S2       46960   S1(2N)(NETWORK? ? OR GRID)
S3       29305   FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NEC-
                 K? ? OR BLACKOUT? OR BLACK??()OUT? ? OR (INSUFFICIEN? OR INAD-
                 EQUATE OR SCARCE OR DEFICIENT OR ("NOT"()ENOUGH) OR SHORT)()(-
                 SUPPLY OR CAPACITY)
S4    12055866   NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARR-
                 ANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR HA-
                 NDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS?
S5     3504640   (REAL OR SAME)()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR
                  IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP(1W)D-
                 ATE OR UP(2W)MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCU-
                 RRENT? OR BEHIND(2W)SCENE? OR ON()FLY
S6            12 S2 AND S3 AND (S4(5N)S5)
S7             1 S6 FROM 347,350
S8            11 S6 NOT S7
S9             9 RD (unique items)
S10            5 S9 NOT PY>2000
S11            7 (S1(5N)S4) AND (S2(5N)S3) AND S5
S12            5 S11 NOT S6
S13          401 (S1 AND S3 AND S4) FROM 347,350
S14           16 S13 AND (IC=(H02J-000/00 OR H02J-003/00 OR G06F-017/60) OR
                 MC=(T01-J05A OR X12-H01B OR X12-H03A))
```

7/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014096703 **Image available**
WPI Acc No: 2001-580917/200165
Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942; 2002-434191; 2003-076172
XRPX Acc No: N01-432691

**System for managing AC** power networks **based on** flow - gate **market transactions by contracting power transfer on each** flow gate **of the gate collection**

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G; FU C; SAMUELSON R; STREMEL J; TENEV T
Number of Countries: 091 Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200141279 | A1 | 20010607 | WO 2000US22487 | A | 20000816 | 200165 | B |
| AU 200067781 | A | 20010612 | AU 200067781 | A | 20000816 | 200165 | |
| NO 200202555 | A | 20020717 | WO 2000US22487 | A | 20000816 | 200260 | |
| | | | NO 20022555 | A | 20020529 | | |
| EP 1234368 | A1 | 20020828 | EP 2000955602 | A | 20000816 | 200264 | |
| | | | WO 2000US22487 | A | 20000816 | | |

Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213 P 19991130; US 99163213 P 19991130
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200141279 | A1 | E | 99 | H02J-003/00 | |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

| | | | | |
|---|---|---|---|---|
| AU 200067781 | A | | H02J-003/00 | Based on patent WO 200141279 |
| NO 200202555 | A | | H02J-000/00 | |
| EP 1234368 | A1 | E | H02J-003/00 | Based on patent WO 200141279 |

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

**System for managing AC** power networks **based on** flow - gate **market transactions by contracting power transfer on each** flow gate **of the gate collection**

Abstract (Basic):
... an operation (1062), performing contracting of the associated AC power transfer on each of the **flow gates** of the **flow gate** collection, to take place over at least a first time interval, while the execution (1064...
... INDEPENDENT CLAIMS are included for a method for contracting AC power transfer on an AC **power network** and for a computer system supporting program...

...Controlling AC electrical power transfer in a frequency controlled AC **power network** .
...

...Trading **transfer** rights in a **timely** , reliable and efficient manner

10/3,K/1 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online


01657138 ORDER NO: AAD98-26898
**MARGIN AND SENSITIVITY METHODS FOR SECURITY ANALYSIS OF ELECTRIC POWER SYSTEMS (POWER BLACKOUTS )**
Author: GREENE, SCOTT L.
Degree: PH.D.
Year: 1998
Corporate Source/Institution: THE UNIVERSITY OF WISCONSIN - MADISON ( 0262)
Source: VOLUME 59/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 3613. 277 PAGES

**MARGIN AND SENSITIVITY METHODS FOR SECURITY ANALYSIS OF ELECTRIC POWER SYSTEMS (POWER BLACKOUTS )**

Reliable operation of large scale electric **power networks** requires that system voltages and currents stay within design limits. Operation beyond those limits can lead to equipment failures and **blackouts** . Security margins measure the amount by which system loads or power transfers can change before...

...with respect to assumptions, system parameters, operating policy, and transactions. Security margins to voltage collapse **blackouts** , oscillatory instability, generator limits, voltage constraints and line overloads are considered. The usefulness of computing...

...sparse matrix techniques.
Margin sensitivity methods are shown to work effectively for avoiding voltage collapse **blackouts** caused by either saddle node bifurcation of equilibria or immediate instability due to generator reactive...

...margin computation and provides sensitivity information at minimal additional cost. Estimates of the effect of **simultaneous transfers** on the **transfer** margins agree well with the exact computations for a network model derived from a portion...

10/3,K/2 (Item 2 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online


01486885 ORDER NO: AADAA-I9616713
**DISTRIBUTED MANAGEMENT BY DELEGATION (NETWORK DELAYS, ELASTIC PROCESSES)**
Author: GOLDSZMIDT, GERMAN S.
Degree: PH.D.
Year: 1996
Corporate Source/Institution: COLUMBIA UNIVERSITY (0054)
Source: VOLUME 57/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 1200. 226 PAGES

...remote control. The elastic processing architecture extends dynamic linking of delegated agents across remote computers.
**Current network** management systems follow a platform-centric, static soft-ware paradigm that allocates most responsibilities to...

...unreliable systems. It forces management applications to micro-manage devices, and results in failure-prone **management bottlenecks** , and limitations for **real time** responsiveness. The dissertation presents a more flexible management paradigm, namely Management by Delegation (MbD). MbD...

10/3,K/3 (Item 1 from file: 2)

EKD: October 6, 2003

DIALOG(R)File 2:INSPEC


6841312 INSPEC Abstract Number: B2001-03-6210L-166, C2001-03-5620W-072
**Title: Implicit admission control**
Author(s): Mortier, R.; Pratt, I.; Clark, C.; Crosby, S.
Author Affiliation: Comput. Lab., Cambridge Univ., UK
Journal: IEEE Journal on Selected Areas in Communications vol.18, no.12 p.2629-39
Publisher: IEEE,
Publication Date: Dec. 2000 Country of Publication: USA
CODEN: ISACEM ISSN: 0733-8716
SICI: 0733-8716(200012)18:12L.2629:IAC;1-I
Material Identity Number: D958-2001-002
U.S. Copyright Clearance Center Code: 0733-8716/2000/$10.00
Language: English
Subfile: B C


...Abstract: level concepts, such as connections, flows, and sessions when controlling network congestion. This becomes of **increasing** importance as more **real - time** traffic is carried on the Internet, since this traffic is less elastic in nature than traditional Web traffic. We argue that, in order to achieve better **utility** of the **network** as a whole, higher level congestion controls are required. By way of example, we present...

...results are used to show that it can drastically improve the performance of TCP over **bottleneck** links. We go on to describe an implementation of our algorithm for a router running the Linux 2.2.9 operating system. We show that by giving routers at **bottlenecks** the ability to intelligently deny admission to TCP connections, the goodput of existing connections can ...
...Identifiers: **bottleneck** links

**10/3,K/4 (Item 2 from file: 2)**
DIALOG(R)File 2:INSPEC


6298421 INSPEC Abstract Number: C1999-08-5440-018
**Title: Performance tuning software DSM applications using visualisation**
Author(s): Brorsson, M.; Kral, M.
Author Affiliation: Dept. of Inf. Technol., Lund Univ., Sweden
Journal: Journal of Supercomputing vol.13, no.3 p.249-65
Publisher: Kluwer Academic Publishers,
Publication Date: May 1999 Country of Publication: Netherlands
CODEN: JOSUED ISSN: 0920-8542
SICI: 0920-8542(199905)13:3L.249:PTSA;1-1
Material Identity Number: L599-1999-003
U.S. Copyright Clearance Center Code: 0920-8542/99/$9.50
Language: English
Subfile: C


Abstract: Small organisations can now have access to high raw processing **power** using **networks** of workstations ( **NOW** ) as parallel computing platforms. Software **Distributed** Shared Memory (Software DSM) packages have been developed to facilitate the programming of such systems...

... a tool to visualise the execution of a program in a way that highlights performance **bottlenecks** . The tool associates identified **bottlenecks** with the corresponding source code lines in order to determine what piece of code is...
...Identifiers: performance **bottlenecks** ;

10/3,K/5 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC


5850103 INSPEC Abstract Number: C9804-6110P-028
**Title: Visualisation for performance tuning of DVSM applications**
Author(s): Brorsson, M.; Kral, M.
Author Affiliation: Dept. of Inf. Technol., Lund Univ., Sweden
Conference Title: Proceedings of the Thirty-First Hawaii International Conference on System Sciences (Cat. No.98TB100216) Part vol.7 p. 532-41 vol.7
Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA
Publication Date: 1998 Country of Publication: USA 7 vol. (xiv+689+ix+346+xi+470+xiv+581+xi+481+xiv+753+xvi+849) pp.
ISBN: 0 8186 8255 8 Material Identity Number: XX98-00245
U.S. Copyright Clearance Center Code: 1060-3425/98/$10.00
Conference Title: Proceedings of the Thirty-First Hawaii International Conference on System Sciences
Conference Sponsor: Univ. Hawaii
Conference Date: 6-9 Jan. 1998 Conference Location: Kohala Coast, HI, USA
Language: English
Subfile: C

Abstract: Small organisations can now have access to high raw processing **power** using **networks** of workstations ( **NOW** ) as parallel computing platforms. **Distributed** Virtual Shared Memory (DVSM) packages have been developed to facilitate the programming of such systems...

... a tool to visualise the execution of a program in a way that highlights performance **bottlenecks** . The tool associates identified **bottlenecks** with the corresponding source code lines in order to determine what piece of code is...
...Identifiers: **bottlenecks** ;

EKD October 6, 2003

12/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC


6709251 INSPEC Abstract Number: B2000-10-8110C-079
**Title: Enhanced power system operation by application of adjustable speed hydro machines**
Author(s): Sporild, R.; Gjerde, J.O.; Gjengedal, T.
Author Affiliation: ABB Corp. Res., Billingstad, Sweden
Conference Title: DRPT2000. International Conference on Electric Utility Deregulation and Restructuring and Power Technologies. Proceedings (Cat. No.00EX382) p.372-7
Editor(s): Lai Loi Lei
Publisher: IEEE, Piscataway, NJ, USA
Publication Date: 2000 Country of Publication: USA xxii+688 pp.
ISBN: 0 7803 5902 X Material Identity Number: XX-1999-03647
U.S. Copyright Clearance Center Code: 0 7803 5902 X/2000/$10.00
Conference Title: Proceedings of International Conference on Electric Utility Deregulation and Restructuring, and Power Technologies 2000
Conference Sponsor: Nat. Grid Company UK; Electricite de France; Mitsubishi Electr. Corp. Japan; London Electr.; ABB; A.M. Best Int
Conference Date: 4-7 April 2000 Conference Location: London, UK
Language: English
Subfile: B

...Abstract: the adjustable speed hydro (ASH) machine concept as an alternative for obtaining better utilisation of **power networks**. Transmission lines appearing as **bottlenecks** with respect to **power** demand may **increase** their **transfer** capacity as ASH machines are introduced in the network. The paper has given a quantification...
...Identifiers: **dynamic** stability

12/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC


6495745 INSPEC Abstract Number: B2000-03-8240-017
**Title: Assessing the benefits of adjustable speed hydro machines**
Author(s): Gjengedal, T.; Gjerde, J.O.; Sporild, R.
Author Affiliation: Statkraft SF, Norway
Conference Title: PowerTech Budapest 99. Abstract Records. (Cat. No.99EX376) p.105
Publisher: IEEE, Piscataway, NJ, USA
Publication Date: 1999 Country of Publication: USA xviii+308 pp.
ISBN: 0 7803 5836 8 Material Identity Number: XX-1999-00599
U.S. Copyright Clearance Center Code: 0 7803 5836 8/99/$10.00
Conference Title: Proceedings of 1999 PowerTech Conference
Conference Date: 29 Aug.-2 Sept. 1999 Conference Location: Budapest, Hungary
Language: English
Subfile: B


...Abstract: the adjustable speed hydro (ASH) machine concept as an alternative for obtaining better utilisation of **power networks**. Transmission lines appearing as **bottlenecks** with respect to **power** demand may **increase** their **transfer** capacity as ASH machines are introduced in the network. This is achieved by a quick...
...Descriptors: **synchronous** generators

12/3,K/3 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management

01776315 20030800086
**Mittelspannungs-Gleichstrom-Uebertragungsanlage Siplink im Versorgungsnetz. Leistungselektronik in der regionalen Energieversorgung**
(Medium voltage direct **current** coupler in **distribution** networks)
Huebel, I
Siemens, Erlangen, D
ew - Elektrizitaetswirtschaft, v102, n16, pp36-38, 2003
Document type: journal article Language: German
Record type: Abstract
ISSN: 1619-5795

(Medium voltage direct **current** coupler in **distribution** networks)
DESCRIPTORS: DC TRANSMISSION; MEDIUM VOLTAGE; ELECTRICS; UTILITY NETWORKS; **INTERACTIVE** OPERATION; ELECTRIC POWER UTILITY COMPANIES; INNOVATIONS; ELECTRIC MAINS; LOAD FLOW; CONTROL; **BOTTLE NECK** ; ACTIVE **POWER** ; **NETWORK** STUCTURE...

**12/3,K/4 (Item 2 from file: 95)**
DIALOG(R)File 95:TEME-Technology & Management


01693385 20021105443
**Sicherheit der Uebertragungsnetze**
(Security of transmission systems)
Brauner, G; Haimbl, W; Christiner, G; Popelka, H
TU Wien, A; Verbund-Austrian Power Grid, Wien, A
e & i. Elektrotechnik und Informationstechnik, v119, n10, pp340-346, 2002
Document type: journal article Language: German
Record type: Abstract
ISSN: 0932-383X

DESCRIPTORS: **ENERGY TRANSFER** OF ELECTRICITY; ELECTRIC MAINS; **POWER** SYSTEM **NETWORK** ADMINISTRATION; **BOTTLE NECK** ; EUROPE; HIGH VOLTAGE NETWORKS; CAPACITY UTILIZATION; LOAD FLOW; MARKET; NETWORK LOADS; **INTERACTIVE** OPERATION; MAINS FREQUENCY; POWER SYSTEM SIMULATION; ELECTRICAL POWER SYSTEMS STABILITY; POWER SYSTEM DISTURBANCE; AUSTRIA; CONGESTION...

**12/3,K/5 (Item 3 from file: 95)**
DIALOG(R)File 95:TEME-Technology & Management


01693383 20021105445
**Wie sicher sind Uebertragungsnetze**
Haimbl, W; Popelka, H
Verbund-Austrian Power Grid, Wien, A
e & i. Elektrotechnik und Informationstechnik, v119, n10, pp355-356, 2002
Document type: journal article Language: German
Record type: Abstract
ISSN: 0932-383X

DESCRIPTORS: **ENERGY TRANSFER** OF **ELECTRICITY** ; ELECTRIC MAINS; **BOTTLE NECK** ; HIGH VOLTAGE **NETWORKS** ; **POWER** PLANTS; CLIENTS; LOAD FLOW; **INTERACTIVE** OPERATION; ELECTRICAL POWER SYSTEMS STABILITY; POWER SYSTEM DISTURBANCE; AUSTRIA; QUALITY; SAFETY; CONFERENCE PROCEEDINGS; COMPETITION

14/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

07361605 **Image available**
**UTILITY** SUPPLY SYSTEM

PUB. NO.: 2002-230102 [JP 2002230102 A]
PUBLISHED: August 16, 2002 (20020816)
INVENTOR(s): NARANO JUNZO
MIURA SATORU
KAWAHARA HIDEAKI
APPLICANT(s): OSAKA GAS CO LTD
APPL. NO.: 2001-028149 [JP 20011028149]
FILED: February 05, 2001 (20010205)

**UTILITY** SUPPLY SYSTEM

INTL CLASS: **G06F-017/60** ; **H02J-003/00** ; C10L-003/06; F17D-001/02

ABSTRACT

PROBLEM TO BE SOLVED: To economically evade generation of a **short supply** state and an excess supply state in the case of supplying gas from a single...

...from the gas supply network to a customer 9 by set quantity of in the **short supply** state in which the acceptance quantity is less than the paid quantity by the set...

... is decided by a decision means 43 of over and shorts state of supply. Allowed **increase** and decrease of the respective customers 9 are calculated by a quantity **increase** and decrease calculating means 42. The generation of the excess supply state and the **short supply** state is evaded by supplying an excess portion to the customer 9 with the allowed **increase** when the acceptance quantity is in the excess supply state and decreasing a short portion at the customer 9 with the allowed decrease when the acceptance quantity is in the **short supply** state.



14/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

07163731 **Image available**
DELIVERY DATE ANSWER METHOD AND SYSTEM

PUB. NO.: 2002-032115 [JP 2002032115 A]
PUBLISHED: January 31, 2002 (20020131)
INVENTOR(s): HIKI YUSUKE
TAMURA KIMITAKA
KITA KAZUMASA
IIJIMA TOSHIKAZU
KOBAYASHI HIDEKO
APPLICANT(s): HITACHI LTD
APPL. NO.: 2000-218726 [JP 2000218726]
FILED: July 14, 2000 (20000714)

INTL CLASS: G05B-019/418; **G06F-017/60**

ABSTRACT

... BE SOLVED: To quickly answer the accurate delivery date under an environment matched with a **current** state even when a production plan is changed due to the shortage of necessary parts....
... information input processing part for processing the input of information of parts which are in **short supply** due to a factor for

interrupting the execution of the production plan, a product constitution ...

... part for executing the reverse development processing of product constitution and an execution disabled plan **management** part for **managing** a production plan of products which can not be produced in accordance with the plan...

**14/3,K/3 (Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015497071 **Image available**
WPI Acc No: 2003-559218/200352
XRPX Acc No: N03-444543
**Remote data acquisition/control system, e.g. for electric** power **system, has system intelligence** distributed **amongst central unit, concentrators or intermediate stations and** electricity **meters, all using bi-directional data communications**
Patent Assignee: ENEL DISTRIBUZIONE SPA (ENEL-N)
Inventor: ROGAI S
Number of Countries: 102 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200355031 | A2 | 20030703 | WO 2002EP14687 | A | 20021220 | 200352 | B |

Priority Applications (No Type Date): IT 2001MI2726 A 20011220
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200355031 | A2 | E | 16 | H02J-000/00 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

**Remote data acquisition/control system, e.g. for electric** power **system, has system intelligence** distributed **amongst central unit, concentrators or intermediate stations and** electricity **meters, all using bi-directional data communications**

Abstract (Basic):
... A set of meters for measuring electric **energy** consumption is connected through concentrators, or intermediate stations, and bi-directional data transmission units to...
... For several, dispersed domestic consumers of **electrical power**, water and gas...

...Guaranteed regular and continuous working even during **blackouts** .

...Title Terms: **POWER** ;
International Patent Class (Main): **H02J-000/00**
...Manual Codes (EPI/S-X): **X12-H01B** ...

... **X12-H03A**

**14/3,K/4 (Item 2 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014906050 **Image available**

WPI Acc No: 2002-726756/200279
XRPX Acc No: N02-573097
Utility **service system has amount computation unit which calculates acceptance quantity** increase **of each customer**
Patent Assignee: OSAKA GAS CO LTD (OSAG )
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 2002230102 | A | 20020816 | JP 200128149 | A | 20010205 | 200279 | B |

Priority Applications (No Type Date): JP 200128149 A 20010205
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 2002230102 | A | | 10 | G06F-017/60 | |

Utility **service system has amount computation unit which calculates acceptance quantity** increase **of each customer**

Abstract (Basic):
... The acceptance quantity **increase** of each customer (9) is calculated using an amount computation unit (42), so that over supply or **insufficient supply** is prevented.
... **Utility** service system...

...The figure shows the block diagram of the **utility** service system.
(Drawing includes non-English language text
...Title Terms: **INCREASE** ;
International Patent Class (Main): **G06F-017/60**
...International Patent Class (Additional): **H02J-003/00**
Manual Codes (EPI/S-X): **T01-J05A** ...

**14/3,K/5 (Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014877989 **Image available**
WPI Acc No: 2002-698695/200275
XRPX Acc No: N02-550933
**Method, system and computer program product for** controlling **and regulating** electrical **loads connected to** electrical **network, uses device at load point with means for remote invoking in order to switch on or off a part load of end user**
Patent Assignee: GJERDE J O (GJER-I); GUNDERSEN L S (GUND-I); QUAINTANCE W H (QUAI-I); VU K (VUKK-I); ABB RES LTD (ALLM )
Inventor: GJERDE J O; GUNDERSEN L S; QUAINTANCE W H; VU K; GJERDE J; GUNDERSEN L; QUAINTANCE W
Number of Countries: 098 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200269471 | A1 | 20020906 | WO 2002SE310 | A | 20020222 | 200275 | B |
| US 20020162032 | A1 | 20021031 | US 2001793589 | A | 20010227 | 200279 | |

Priority Applications (No Type Date): US 2001793589 A 20010227
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200269471 | A1 | E | 40 | H02J-003/14 | |

Designated States (National): AE AG AL AM AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU DM DZ EC EE ES GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW
US 20020162032 A1 G06F-001/26

**Method, system and computer program product for** controlling **and**

**regulating** electrical **loads connected to** electrical **network, uses device at load point with means for remote invoking in order to switch...**

Abstract (Basic):
... The system, a method, and a computer program product are for load **management** in an **electrical power** generation, transmission and **distribution** network. A device **arranged** at a load point comprises means for a procedure call that may be remotely invoked...

...or off a part load of an end user for the purpose of load demand **management** . The invention enables load to be reduced incrementally and restored quickly and automatically and is...
... Method, system and a computer program product for **controlling** and regulating **electrical** loads connected to an **electrical** network ...

...Uses web technology to provide a **power** network with automated load **management** in an economic way. In a **power** network, the invention spreads the load shaving or shedding more evenly over a wide geographical area, as opposed to the traditional method of 'rotating **blackouts** '. Provides a method and a system for regulation of one or more loads by means...
...Manual Codes (EPI/S-X): **X12-H03A**

**14/3,K/6 (Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014823356 **Image available**
WPI Acc No: 2002-644062/200269
XRPX Acc No: N02-509135
**Item exchange method for the** transfer **and exchange of electronic items, authorizes one or more buyers of an item to become providers of that item to further buyers**
Patent Assignee: BLAU A (BLAU-I)
Inventor: BLAU A
Number of Countries: 100 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200275622 | A2 | 20020926 | WO 2002IL216 | A | 20020319 | 200269 | B |

Priority Applications (No Type Date): US 2001277064 P 20010320
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200275622 | A2 | E | 23 | G06F-017/60 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

**Item exchange method for the** transfer **and exchange of electronic items, authorizes one or more buyers of an item to become...**

Abstract (Basic):
... For the **transfer** and exchange of electronic items, such as electronic content, certificates, licenses, money, options, contracts, computing **power** , communication line bandwidth and/or hard disc space ...

...giving priority to high bandwidth peers on the network, the method enables items to be **distributed** faster, whilst the load on the network is more homogeneous and bandwidth **bottlenecks** may be reduced

or prevented, possibly eliminating the need for expensive servers and trained personnel **managing** the servers...
...Title Terms: **TRANSFER** ;
International Patent Class (Main): **G06F-017/60**

**14/3,K/7 (Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014614413 **Image available**
WPI Acc No: 2002-435117/200246
XRPX Acc No: N02-342527
Energy **load curtailment method in network-based service, involves providing aggregated data to** energy **market purchasers for purchase of** energy **curtailment rights**
Patent Assignee: RETX.COM INC (RETX-N)
Inventor: MALME R; SCARPELLI P C
Number of Countries: 094 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200225543 | A1 | 20020328 | WO 2001US29090 | A | 20010918 | 200246 | B |
| AU 200192727 | A | 20020402 | AU 200192727 | A | 20010918 | 200252 | |

Priority Applications (No Type Date): US 2000233419 P 20000918
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200225543 | A1 | E | 67 | G06F-017/60 | |

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

| | | | | |
|---|---|---|---|---|
| AU 200192727 | A | | G06F-017/60 | Based on patent WO 200225543 |

Energy **load curtailment method in network-based service, involves providing aggregated data to** energy **market purchasers for purchase of** energy **curtailment rights**

Abstract (Basic):
... Curtailment **energy** commitment data is received through a communication network and aggregated. The aggregated data is provided to **energy** market purchasers for purchase of **energy** curtailment rights.
... An INDEPENDENT CLAIM is also included for **energy** load curtailment system...

...Used in field of network-based services for **power** generation, transmission, grid **management** , etc...

...Significant amount of untapped **energy** resource can be made available during peak demand periods. The **energy** consumers are transformed into potential **energy** sellers. Thus the problem of transmission **bottlenecks** is reduced...

...The figure shows the functional block diagram of the virtual reality system of **energy** load curtailment method...
Title Terms: **ENERGY** ;
International Patent Class (Main): **G06F-017/60**

**14/3,K/8 (Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014572120 **Image available**
WPI Acc No: 2002-392824/200242
XRPX Acc No: N02-307934

**Engine-operated generator for use during** power **failure, detects the fault in generator when rectified generator output drops below a specified level after interconnection of commercial** power **system to inverter circuit**

Patent Assignee: HONDA GIKEN KOGYO KK (HOND ); HONDA MOTOR CO LTD (HOND )
Inventor: FUKUSHIMA T; KAMIMURA K; KOTANI Y; TAMECHIKA T
Number of Countries: 029 Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20020024323 | A1 | 20020228 | US 2001938729 | A | 20010827 | 200242 | B |
| EP 1187293 | A2 | 20020313 | EP 2001119668 | A | 20010822 | 200242 | |
| JP 2002078208 | A | 20020315 | JP 2000257701 | A | 20000828 | 200242 | |
| CN 1340894 | A | 20020320 | CN 2001125852 | A | 20010828 | 200246 | |

Priority Applications (No Type Date): JP 2000257701 A 20000828
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20020024323 | A1 | | 14 | H02J-001/00 | |
| EP 1187293 | A2 | E | | H02J-003/38 | |
| Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR | | | | | |
| JP 2002078208 | A | | 13 | H02J-003/38 | |
| CN 1340894 | A | | | H02J-003/00 | |

**Engine-operated generator for use during** power **failure, detects the fault in generator when rectified generator output drops below a specified level after interconnection of commercial** power **system to inverter circuit**

Abstract (Basic):

... A connector relay (135) interconnects inverter circuit (13) to a commercial **power** supply (14). The connector relay is opened when the rectified generator output drops below specified...

... Engine-operated generator apparatus e.g. generator for use in case of **blackout** or **power** failure...

...such as line breakage in winding during operation of generator is detected with a simple **arrangement** . Adverse effects on commercial **power** system at interconnection with inverter circuit, is minimized while engine is run steadily, enabling rectified...

...Commercial **power** supply (14...
...Title Terms: **POWER** ;
...International Patent Class (Main): **H02J-003/00**

**14/3,K/9 (Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


014096703 **Image available**
WPI Acc No: 2001-580917/200165
Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942; 2002-434191; 2003-076172
XRPX Acc No: N01-432691

**System for** managing **AC** power **networks based on** flow - gate **market transactions by** contracting power transfer **on each** flow gate **of the gate collection**

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G; FU C; SAMUELSON R; STREMEL J; TENEV T
Number of Countries: 091 Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WO 200141279 | A1 | 20010607 | WO 2000US22487 | A | 20000816 | 200165 | B |
| AU 200067781 | A | 20010612 | AU 200067781 | A | 20000816 | 200165 | |
| NO 200202555 | A | 20020717 | WO 2000US22487 | A | 20000816 | 200260 | |
| | | | NO 20022555 | A | 20020529 | | |
| EP 1234368 | A1 | 20020828 | EP 2000955602 | A | 20000816 | 200264 | |
| | | | WO 2000US22487 | A | 20000816 | | |

Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213 P 19991130; US 99163213 P 19991130

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200141279 | A1 | E | 99 | H02J-003/00 | |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

| | | | | |
|---|---|---|---|---|
| AU 200067781 | A | | H02J-003/00 | Based on patent WO 200141279 |
| NO 200202555 | A | | H02J-000/00 | |
| EP 1234368 | A1 | E | H02J-003/00 | Based on patent WO 200141279 |

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

**System for** managing **AC** power **networks based on** flow - gate **market transactions by** contracting power transfer **on each** flow gate **of the gate collection**

Abstract (Basic):

... flow of execution (1060) for a starting operation (1022) goes to an operation (1062), performing **contracting** of the associated AC **power transfer** on each of the **flow gates** of the **flow gate** collection, to take place over at least a first time interval, while the execution (1064...

... INDEPENDENT CLAIMS are included for a method for **contracting** AC **power transfer** on an AC **power** network and for a computer system supporting program...

... **Controlling** AC **electrical power transfer** in a frequency **controlled** AC **power** network...

...Trading **transfer** rights in a timely, reliable and efficient manner...

...The drawing shows operation of the flow **transfer** over a first time interval

...Title Terms: **MANAGE** ;

International Patent Class (Main): **H02J-000/00** ...

... **H02J-003/00**

International Patent Class (Additional): **G06F-017/60**

Manual Codes (EPI/S-X): **T01-J05A** ...

... **X12-H01B** ...

... **X12-H03A**

**14/3,K/10 (Item 8 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



012305113 **Image available**

WPI Acc No: 1999-111219/199910

XRPX Acc No: N99-081091

**Electric- power management system for electric power consumption billing system - uses power utilization calculating device of total fee**

management **apparatus to compute** power **consumption fee of** power **requirement installation based on** power **consumption information received via stationary satellite**

Patent Assignee: TOSHIBA KK (TOKE )
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 10334385 | A | 19981218 | JP 97141898 | A | 19970530 | 199910 | B |

Priority Applications (No Type Date): JP 97141898 A 19970530
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 10334385 | A | | 13 | G08C-015/00 | |

**Electric-** power management **system for electric** power **consumption billing system...**

...**uses** power **utilization calculating device of total fee** management **apparatus to compute** power **consumption fee of** power **requirement installation based on** power **consumption information received via stationary satellite**

...Abstract (Basic): NOVELTY - The **power** utilization calculating device (150c) of a total fee **management** apparatus (100) computes the utilization fee corresponding to the **power** consumption of a **power** requirement installation (300) at home based on the **power** consumption amount data received by the **management** apparatus from the **power** requirement installation via a stationary satellite (200). DETAILED DESCRIPTION - The **power** consumption detector (350b) of a **power** requirement installation (300) determines the amount of **power** consumption of an automatic installation at a predetermined time based on the output information from a electric supply meter (360). The transmission **controller** of the **power** requirement installation enables the transmission of the output of the **power** consumption detector to a total fee **management** apparatus (100) as a **power** consumption amount information via a stationary satellite. The reception **controller** (150b) of the total fee **management** apparatus allows the reception of the sent **power** consumption amount information ...

...USE - For charging consumer regarding consumed electric **power** at home using communication satellite system...

...ADVANTAGE - Enables **management** of **power** consumption and billing of the **power** requirement installation even without checking electric supply meter. **Power** consumption of **power** requirement installation can be reduced via satellite when consumption level is more than predetermined value. Can quickly correspond to **short supply** of electric **power** in **power** requirement installation. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the circuit component of an electric- **power management** system. (100) total fee **management** apparatus; (150b) reception **controller** ; (150c) **power** utilization calculating device; (200) stationary satellite; (300) **power** requirement installation; (350b) **power** consumption detector; (360) electric supply meter...

...Title Terms: **POWER** ;
...International Patent Class (Additional): **H02J-003/00**

**14/3,K/11 (Item 9 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


011621575 **Image available**
WPI Acc No: 1998-038703/199804
XRPX Acc No: N98-031175
**Network flow** managing **method for water works and electric** power **system - involves obtaining influence of variation in flow corresponding**

**to network operation and predicting variation in flow in particular sub-block**

Patent Assignee: HITACHI JOHO SEIGYO SYSTEM KK (HITA-N); HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 9292922 | A | 19971111 | JP 96103053 | A | 19960425 | 199804 | B |

Priority Applications (No Type Date): JP 96103053 A 19960425

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 9292922 | A | | 9 | G05D-007/06 | |

**Network flow** managing **method for water works and electric** power **system...**

...Abstract (Basic): The network flow **managing** method involves prediction of variation in flow accompanied by branch switching and other operations, and...

...ADVANTAGE - Improves efficiency of calculation of network flow. Improves efficiency of avoiding **bottle necks** . Enables correct extraction of part related to local operation of network...

...Title Terms: **MANAGE** ;

...International Patent Class (Additional): **G06F-017/60** ...

...Manual Codes (EPI/S-X): **T01-J05A** ...

... **X12-H01B** ...

... **X12-H03A**

**14/3,K/12 (Item 10 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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011033507 **Image available**

WPI Acc No: 1997-011431/199701

XRPX Acc No: N97-010012

**Control appts. for** electrical **load in load** management **system e.g. for** electrical utility - **has communicator for transmitting** electrical **load data and load control data to distant data processing centre, with monitors for evaluating** distribution **or interruption of** energy

Patent Assignee: SCIENTIFIC-ATLANTA INC (SCAT )

Inventor: DAVIS G A; MASSARA J M

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 5576700 | A | 19961119 | US 92935837 | A | 19920826 | 199701 | B |

Priority Applications (No Type Date): US 92935837 A 19920826

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5576700 | A | | 20 | H04Q-001/00 | |

**Control appts. for** electrical **load in load** management **system e.g. for** electrical utility - ...

...**has communicator for transmitting** electrical **load data and load control data to distant data processing centre, with monitors for evaluating** distribution **or interruption of** energy

...Abstract (Basic): An **electrical** load **management** system includes a number of an improved load control switching and monitoring appts. Each of the improved apparatus is located proximate to an **electrical** load to be **controlled** . A data processing centre remotely located and

separated from the **electrical** load, causes **electrical** load reductions in an **electrical** **distribution** network and monitors each of the **electrical** load reductions and **energy** supplied to the **electrical** load...

...The appts. comprises a control device for **controlling** the **electrical** load in the **electrical** **distribution** network in response to command signals transmitted by a command centre, which is remotely located from the **electrical** load. A first monitoring device generates **electrical** load data in response to detecting the **distribution** and interruption of the **energy** to the **electrical** load. A second monitoring device generates **electrical** load control data in response to detecting the control operation. A data collection device collects the **electrical** load data and the **electrical** load control data and communicates both to the data processing centre. The latter processes the **electrical** load data and the load control data to determine the effectiveness of the **electrical** load **management** system...

...ADVANTAGE - Helps minimise **electrical** **black - outs** or brown-outs...
...Title Terms: **MANAGEMENT** ;
...Manual Codes (EPI/S-X): **X12-H03A**

**14/3,K/13 (Item 11 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
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010391997 **Image available**
WPI Acc No: 1995-293311/199538
XRPX Acc No: N95-221841
**Remote control of** electrical **load e.g electric water heater, esp. in consumer's premises. - using switching circuit which is responsive to deliberate signal deviations such as brownout intervals or overvoltage spikes to reduce or** increase **output** power **to load**
Patent Assignee: DOSANI N (DOSA-I); LADHA N (LADH-I)
Inventor: DOSANI N; LADHA N
Number of Countries: 060 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 9522190 | A1 | 19950817 | WO 95CA77 | A | 19950215 | 199538 | B |
| CA 2115717 | A | 19950816 | CA 2115717 | A | 19940215 | 199545 | |
| AU 9517026 | A | 19950829 | AU 9517026 | A | 19950215 | 199548 | |

Priority Applications (No Type Date): CA 2115717 A 19940215
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 9522190 | A1 | E | 55 | H02J-003/14 | |

Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG

| | | | |
|---|---|---|---|
| AU 9517026 | A | H02J-003/14 | Based on patent WO 9522190 |
| CA 2115717 | A | H02J-001/00 | |

**Remote control of** electrical **load e.g electric water heater, esp. in consumer's premises...**

...**responsive to deliberate signal deviations such as brownout intervals or overvoltage spikes to reduce or** increase **output** power **to load**

...Abstract (Basic): A **power** modulator (10) has input (12), output (14), microprocessor (18) and a **power** redn. circuit (14) which reduces **power** e.g. by ''cycle stealing'' or ''phase firing'' using TRIACs to withhold a portion of...

...A brownout or **blackout** sensor (24) will respond to voltage drops to turn off the load until a voltage...

...ADVANTAGE - **Electricity utility** can control **electrical power** consumption e.g. during peak demand periods, reducing **power** to selected loads or deactivating them completely according to priority...
...Title Terms: **INCREASE** ;
...Manual Codes (EPI/S-X): **X12-H03A**

**14/3,K/14 (Item 12 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


010338133 **Image available**
WPI Acc No: 1995-240221/199531
Related WPI Acc No: 1986-131543; 1995-089457; 1995-283335; 2001-181368
XRPX Acc No: N95-187345
**Microcomputer based** power **line protection, monitoring and** management **system - has one or more switches serially connected to line for enabling, disabling or interrupting** current **flow through line, and secondary protector across output of switch**
Patent Assignee: OMTRONICS CORP (OMTR-N)
Inventor: AHUJA O
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| US 5428494 | A | 19950627 | US 84664472 | A | 19841024 | 199531 B |
| | | | US 86833360 | A | 19860225 | |
| | | | US 89314632 | A | 19890222 | |
| | | | US 91684167 | A | 19910411 | |
| | | | US 938674 | A | 19930125 | |

Priority Applications (No Type Date): US 938674 A 19930125; US 84664472 A 19841024; US 86833360 A 19860225; US 89314632 A 19890222; US 91684167 A 19910411
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5428494 | A | | 20 | H02H-003/00 | CIP of application US 84664472 |
| | | | | | CIP of application US 86833360 |
| | | | | | Div ex application US 89314632 |
| | | | | | CIP of application US 91684167 |

**Microcomputer based** power **line protection, monitoring and** management **system...**

**...has one or more switches serially connected to line for enabling, disabling or interrupting** current **flow through line, and secondary protector across output of switch**

...Abstract (Basic): The appts. for protecting, monitoring and **managing** AC/DC **electrical** line or a telecommunication line has at least one switch serially connected to the **electrical** line for enabling, disabling or interrupting the flow of an **electrical current** through the line w.r.t. a control signal. At least one secondary voltage protector...
...signal in response to at least one of the first and second predetermined values to **manage** the switch, so that the switch enables or disables the flow of the electric **current** in the line. The switch includes an electro-mechanical switch, or an AC/DC solid...

...USE/ADVANTAGE - Protects against overvoltage, multi-stage surge, noise and transients, high **energy** lightning pulses etc. Provides primary and secondary protection in safe way such that system integrity is maintained. Brown-outs and **blackouts** are also prevented...
...Title Terms: **POWER** ;

Manual Codes (EPI/S-X): **X12-H03A** ...

**14/3,K/15 (Item 13 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
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009590969
WPI Acc No: 1993-284515/199336
XRPX Acc No: N93-218906
**Operating device for** power distribution **system - has computers to select** distribution **line with most reserved** power **for virtual** power **interchange and to reduce interchanging overload, ensuring quick recovery from** black - out **NoAbstract**
Patent Assignee: TOSHIBA KK (TOKE )
Number of Countries: 001 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 5199656 | A | 19930806 | JP 92233997 | A | 19920902 | 199336 | B |
| JP 3210086 | B2 | 20010917 | JP 92233997 | A | 19920902 | 200156 | |

Priority Applications (No Type Date): JP 91254054 A 19911002
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 5199656 | A | | 7 | H02J-003/00 | |
| JP 3210086 | B2 | | 7 | H02J-003/00 | Previous Publ. patent JP 5199656 |

**Operating device for** power distribution **system...**
**...has computers to select** distribution **line with most reserved** power **for virtual** power **interchange and to reduce interchanging overload, ensuring quick recovery from** black - out **NoAbstract**
...Title Terms: **POWER** ;
International Patent Class (Main): **H02J-003/00**
...Manual Codes (EPI/S-X): **X12-H03A**

**14/3,K/16 (Item 14 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
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009373178 **Image available**
WPI Acc No: 1993-066657/199308
XRPX Acc No: N93-051021
**Operation of installation comprising long** electrical **conductors - receiving and-or collecting real-time data representative of time derivative of earth magnetic field at several points**
Patent Assignee: AT & T BELL LAB (AMTT )
Inventor: KRAUS J S; LANZEROTTI L J; MEDFORD L V
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 5184311 | A | 19930202 | US 90540434 | A | 19900619 | 199308 | B |

Priority Applications (No Type Date): US 90540434 A 19900619
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5184311 | A | | 11 | G01V-003/08 | |

**Operation of installation comprising long** electrical **conductors...**

...Abstract (Basic): The method of operating an installation that comprises one or more long **electrical** conductors (exemplarily an electric **utility** , telecommunciation system or pipeline) involves receiving and/or collecting substantially real time data representative of...

...due to SMD, but also can provide warning of impeding operating

difficulties, such as possible **increased power** demand by a remote installation...

...protective action in case of solar magnetic disturbances (SMD). Such disturbances in past have caused **black - outs** and other undesirable conditions...

...Manual Codes (EPI/S-X): **X12-H03A**